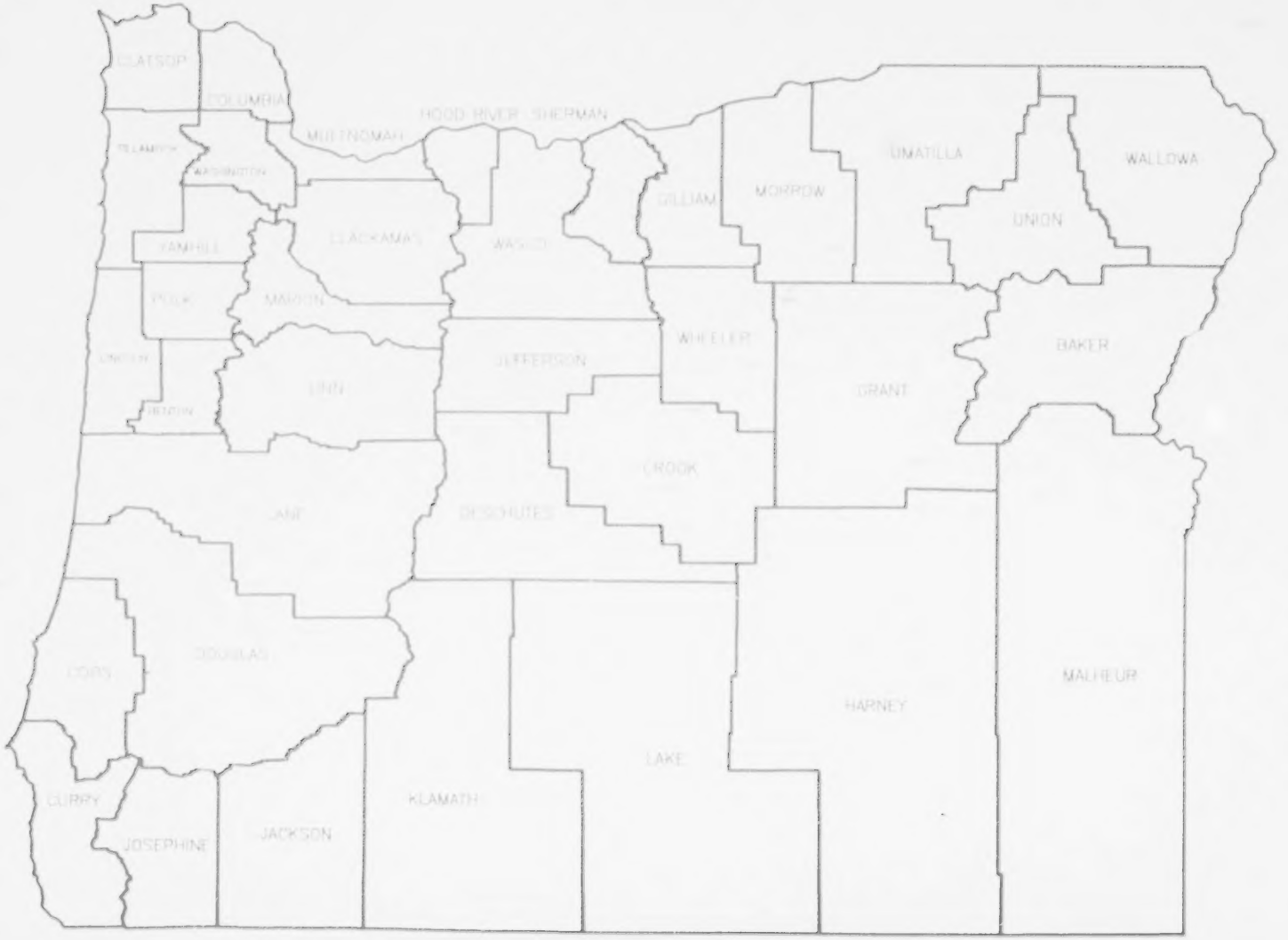
HEALTH DIVISION

OREGON DEPARTMENT OF HUMAN RESOURCES

OREGON VITAL STATISTICS REPORT 1989

OREGON COUNTIES



Oregon
Vital Statistics
Report

FOR CALENDAR YEAR
1989

Oregon Department of Human Resources
Health Division
Health Status Monitoring
Center for Health Statistics

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Preface

The Oregon Center for Health Statistics' annual report, *Oregon Vital Statistics*, presents data about birth, death, marriage, divorce, and morbidity. Narrative and graphics highlight a number of important demographic and public health issues. Readers can research their own areas of interest by using the data in 141 tables and referring to the section "Technical Notes: How to Use Vital Statistics." While the *Oregon Vital Statistics Report* summarizes annual data, other reports go into more detail on specific issues. (Recent publications are listed on the back inside cover.)

The presentation of data in this book is only the final stage of a long process. The prompt and accurate recording of vital events is a complicated community service which receives little public recognition until an individual finds he or she has need of the records or the information they contain. The registration system serves two purposes. First, these vital documents are collected, kept safe, and made available to individuals and their families when needed for documentation of the events in which they were personally involved. Second, our complex society has a need to know about health and social changes occurring in our state. Vital Statistics has frequently been called "the eyes and ears of public health." In fact, it is the only organized system of health records covering the entire population. The collection is a highly cooperative endeavor in which a great many people play an important part.

PROVIDERS OF SERVICES. The providers of the services associated with vital events are the first people involved in the collection system. The birth attendant is responsible for completing both the legal document and the confidential, statistical section of the birth certificate. The death and fetal death certificate must be filed by the funeral director or person who first assumes responsibility for the body. A physician completes the medical portion of these death certificates, except in the case of found bodies and unnatural deaths, which are certified by the medical examiner. Hospital medical records personnel also play an important role in assuring that all certificates are completed and accurate. These service providers then file the completed certificates with the county registrars in the county where the event occurred. Abortions and communicable diseases are treated differently. The providers of induced abortions file the completed statistical reports (which contain no identifying information) directly with the State Registrar. Physicians report cases of communicable diseases to the Disease Monitoring and Control section of the Health Division.

COUNTY OFFICIALS. The county registrars play an important role in assuring the completion and accuracy of the birth, death, and fetal death registration. They check the certificates against other sources of information to make certain no events are missed. They also follow-up any incomplete items before sending the certificates to the State Registrar at the Center for Health Statistics. The county clerks perform a similar function for marriage and divorce certificates.

CENTER FOR HEALTH STATISTICS. At the state level, the staff of the Center for Health Statistics perform additional completeness and accuracy checks. A field representative makes contacts with providers and county registrars, and clerical staff send letters seeking additional information about causes of death, birthweight, and the status of very small babies. Coders and data entry personnel turn the information into computerized data, while microfilmers store the certificates so that certified copies can be made. The computerized statistical data is then retrieved by programmers, analyzed by researchers, and made available for demographic and public health needs.

OTHER STATES. Events relating to Oregon residents which occurred in another state are included in this report. The Centers for Health Statistics in each U.S. state and the Provinces of Canada have traditionally agreed to send copies of birth, death and fetal death certificates to the state where the individual usually resided. A cooperative agreement is also in place for reports on induced termination of pregnancy (abortion), however, some states collect no resident information on these reports and therefore cannot participate in the exchange. There is no exchange program for marriage and divorce certificates.

Who among all these people is the vital recorder? The answer is—all of them. The invisible person who records the major life events of our population is really many people who have all played important roles in presenting this report.

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SUMMARY OF OREGON'S VITAL EVENTS

POPULATION	2,791,000	The population increased by 50,000 or 1.8 percent.
LIVE BIRTHS	Residents	The number of births increased for the second year after a seven year decline. Both the crude rate and fertility rate rose by about 2 percent over the pervious year.
Number	41,223	
Crude Rate	14.8	
Fertility Rate	63.3	
DEATHS	Residents	While the number of deaths increased slightly, the rate declined 2.2 percent.
Number	24,679	
Rate	8.8	
MARRIAGES	Occurrence	Despite an increase of 503 marriages, the rate changed little.
Number	23,908	
Rate	8.6	
DIVORCES	Occurrence	Both the number of divorces and the divorce rate decreased slightly.
Number	15,083	
Rate	5.4	
UNWED MOTHERS	Residents	The number of births to unwed mothers increased 11.3 percent. One in four Oregon infants were born to unwed mothers, a record high.
Number	10,437	
Ratio	253.2	
LOW BIRTHWEIGHT INFANTS	Residents	The number of infants weighing less than 2,500 grams (5.5 pounds) increased but the rate was little changed.
Number	2,150	
Rate	52.2	
INFANT DEATHS	Residents	After falling to record lows during 1988, both the number of infant deaths and the death rate rose during 1989.
Number	364	
Rate	8.8	
NEONATAL DEATHS	Residents	All of the increase in the infant death rate occurred during the neonatal period. The neonatal death rate rose 11.1 percent.
Number	205	
Rate	5.0	
MATERNAL DEATHS	Residents	Oregon's maternal death rate during 1985-1989 was somewhat higher than the nation's for the same period.
Number	4	
Ratio	9.7	
INDUCED ABORTIONS	Occurrence	Both the number of abortions and abortion ratio increased, but not greatly.
Number	13,928	
Ratio	326.1	

Crude birth, death, marriage, and divorce rates are per 1,000 population; fertility rate is per 1,000 15- to 44-year-old females; unwed mother ratio, low birthweight rate, and infant and neonatal death rates are per 1,000 live resident births; maternal death ratio is per 100,000 live resident births; induced abortion ratio is per 1,000 live occurrence births.

TABLE 1-1. POPULATION, LIVE BIRTHS, BIRTHS TO UNWED MOTHERS, MARRIAGES, DIVORCES, U.S., 1945-1989

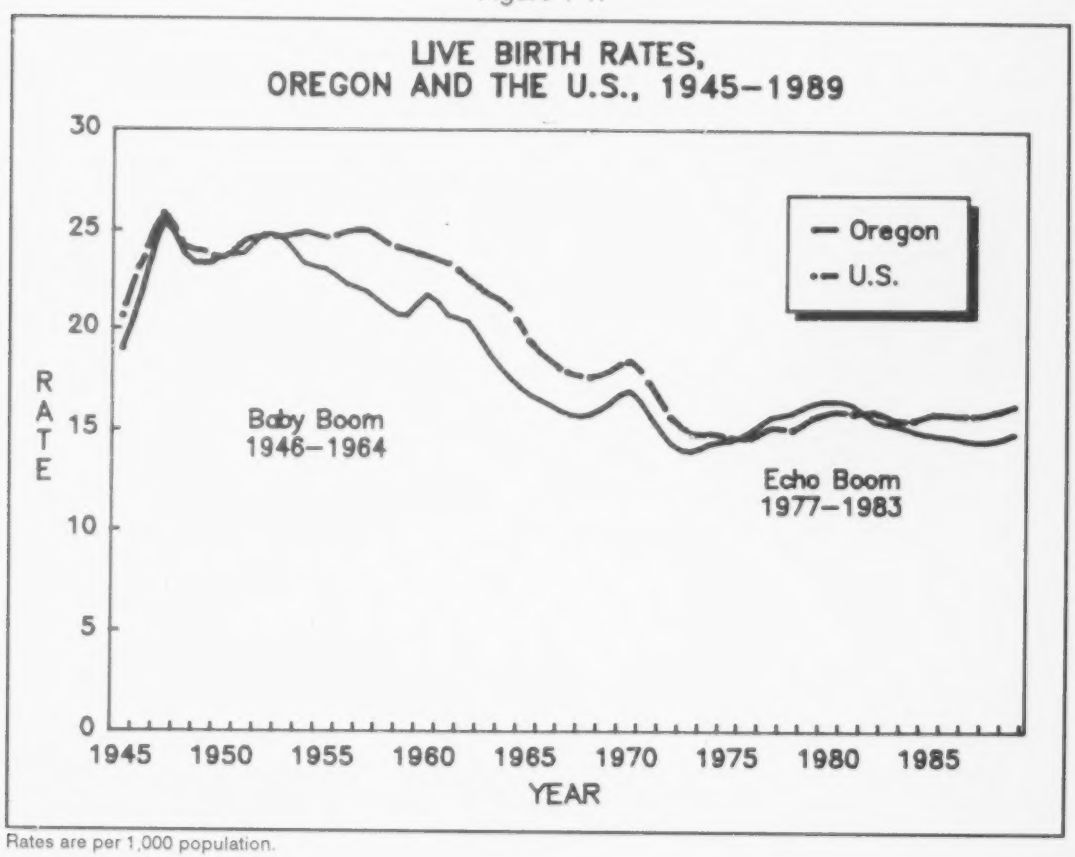
YEAR	POPULATION	LIVE BIRTHS		BIRTHS TO UNWED MOTHERS		MARRIAGES		DIVORCES	
		Number	Rate	Number	Ratio	Number	Rate	Number	Rate
1945	132,481,000	2,735,456	20.6	117,400	42.9	1,612,992	12.2	485,000	3.5
1946	140,054,000	3,288,672	23.5	125,200	38.1	2,291,045	16.4	610,000	4.3
1947	143,446.000	3,699,940	25.8	131,900	35.7	1,991,878	13.9	483,000	3.4
1948	146,093,000	3,535,068	24.2	129,700	36.7	1,811,155	12.4	408,000	2.8
1949	148,665,000	3,559,529	23.9	133,200	37.4	1,579,798	10.6	397,000	2.7
1950	150,697,361	3,554,149	23.6	141,600	39.8	1,667,231	11.1	385,144	2.6
1951	153,310,000	3,750,850	24.5	146,500	39.1	1,594,694	10.4	381,000	2.5
1952	155,687,000	3,846,986	24.7	150,300	39.1	1,539,318	9.9	392,000	2.5
1953	158,242,000	3,902,120	24.7	160,800	41.2	1,546,000	9.8	390,000	2.5
1954	161,164,000	4,017,362	24.9	176,600	44.0	1,490,000	9.2	379,000	2.4
1955	164,308,000	4,047,295	24.6	183,300	45.3	1,531,000	9.3	377,000	2.3
1956	167,306,000	4,163,090	24.9	193,500	46.5	1,585,000	9.5	382,000	2.3
1957	170,371,000	4,254,784	25.0	201,700	47.4	1,518,000	8.9	381,000	2.2
1958	173,320,000	4,203,812	24.3	208,700	49.6	1,451,000	8.4	368,000	2.1
1959	176,513,000	4,244,796	24.0	220,600	52.0	1,494,000	8.5	395,000	2.2
1960	179,323,175	4,257,850	23.7	224,300	52.7	1,523,000	8.5	393,000	2.2
1961	183,057,000	4,268,326	23.3	240,200	56.3	1,548,000	8.5	414,000	2.3
1962	185,890,000	4,167,362	22.4	245,000	58.8	1,577,000	8.5	413,000	2.2
1963	188,658,000	4,098,020	21.7	259,400	63.3	1,654,000	8.8	428,000	2.3
1964	191,371,000	4,027,490	21.0	275,700	68.5	1,725,000	9.0	450,000	2.4
1965	193,818,000	3,760,358	19.4	291,200	77.4	1,800,000	9.3	479,000	2.5
1966	195,857,000	3,606,274	18.4	302,400	83.9	1,857,000	9.5	499,000	2.5
1967	197,863,000	3,520,959	17.8	318,100	90.3	1,927,000	9.7	523,000	2.6
1968	199,861,000	3,501,564	17.6	339,200	96.9	2,069,000	10.4	584,000	2.9
1969	201,921,000	3,600,206	17.9	360,800	100.2	2,145,000	10.6	639,000	3.2
1970	203,211,926	3,731,368	18.4	398,700	106.9	2,158,802	10.6	708,000	3.5
1971	206,212,000	3,555,970	17.2	401,400	112.9	2,190,481	10.6	773,000	3.7
1972	209,284,000	3,258,411	15.6	403,200	123.7	2,282,154	10.9	845,000	4.0
1973	211,357,000	3,136,965	14.8	407,300	129.8	2,284,108	10.8	915,000	4.3
1974	213,342,000	3,159,958	14.8	418,100	132.3	2,229,667	10.5	977,000	4.6
1975	215,465,000	3,144,198	14.6	447,900	142.5	2,152,662	10.0	1,036,000	4.8
1976	217,563,000	3,167,788	14.6	468,100	147.8	2,154,807	9.9	1,083,000	5.0
1977	219,760,000	3,326,632	15.1	515,700	155.0	2,178,367	9.9	1,091,000	5.0
1978	222,095,000	3,333,279	15.0	543,900	163.2	2,282,272	10.3	1,130,000	5.1
1979	224,567,000	3,494,398	15.6	597,800	171.1	2,331,337	10.1	1,181,000	5.3
1980	226,504,825	3,612,258	15.9	665,747	184.3	2,390,252	10.6	1,189,000	5.2
1981	230,339,000	3,629,238	15.8	686,605	189.2	2,422,145	10.6	1,213,000	5.3
1982	231,500,000	3,680,537	15.9	715,277	194.3	2,456,278	10.6	1,170,000	5.0
1983	234,538,000	3,638,933	15.5	737,893	202.8	2,445,604	10.5	1,179,000	5.0
1984	236,681,000	3,669,141	15.5	770,355	210.0	2,477,192	10.5	1,169,000	4.9

TABLE 1-1. POPULATION, LIVE BIRTHS, BIRTHS TO UNWED MOTHERS, MARRIAGES, DIVORCES, U.S., 1945-1989 (CONTINUED)

YEAR	POPULATION	LIVE BIRTHS		BIRTHS TO UNWED MOTHERS		MARRIAGES		DIVORCES	
		Number	Rate	Number	Ratio	Number	Rate	Number	Rate
1985	239,400,000	3,760,561	15.8	828,174	220.2	2,412,625	10.1	1,187,000	5.0
1986	241,100,000	3,756,547	15.6	878,477	233.9	2,407,099	10.0	1,159,000	4.8
1987	243,400,000	3,809,394	15.7	933,013	244.9	2,403,378	9.9	1,166,000	4.8
1988*	245,807,000	3,909,510	15.9	1,005,299	257.1	2,389,000	9.7	1,183,000	4.8
1989*	248,200,000	4,021,000	16.2	---	---	2,404,000	9.7	1,163,000	4.7

Rate per 1,000 population for live births, marriages and divorces.
Ratio per 1,000 live births for births to unwed mothers.
* Provisional data.

Figure 1-1.



Rates are per 1,000 population.

TABLE 1-2. DEATHS, MATERNAL DEATHS, INFANT DEATHS, NEONATAL DEATHS, FETAL DEATHS, U.S., 1945-1989

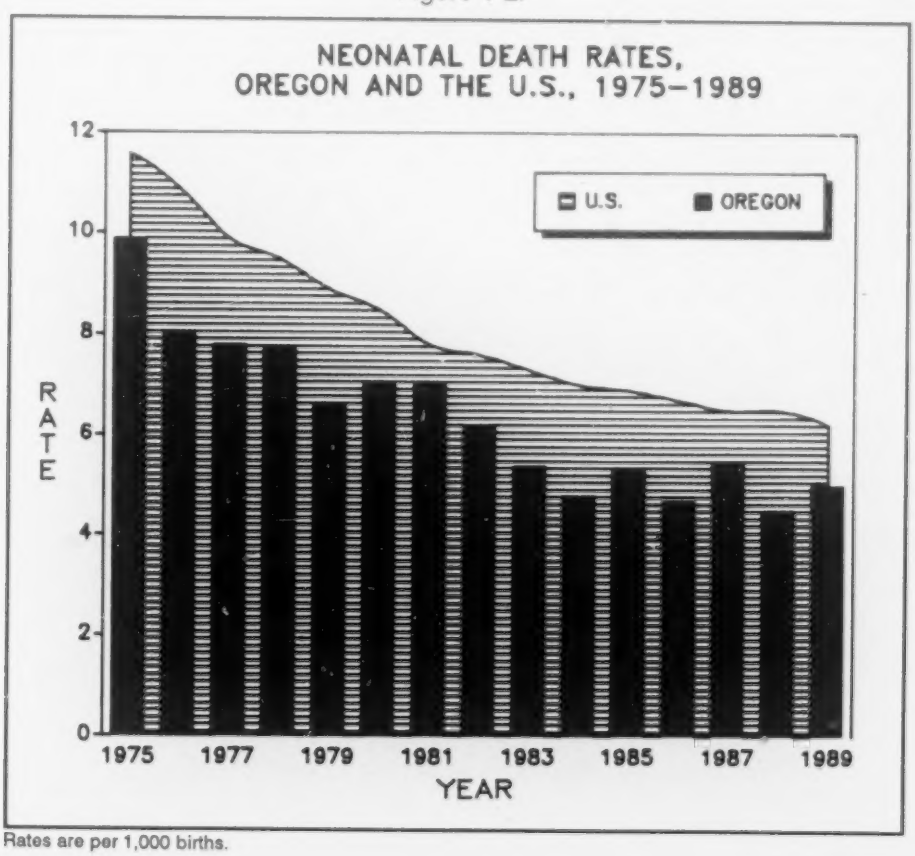
YEAR	DEATHS		MATERNAL DEATHS		INFANT DEATHS		NEONATAL DEATHS		FETAL DEATHS	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Ratio
1945	1,401,719	10.6	5,668	207.2	104,684	38.3	66,593	24.3	65,513	23.9
1946	1,395,617	10.0	5,153	156.7	111,063	33.8	79,079	24.0	74,849	22.8
1947	1,445,370	10.1	4,978	134.5	119,173	32.2	84,296	22.8	77,917	21.1
1948	1,444,337	9.9	4,122	116.6	113,169	32.0	78,426	22.2	72,838	20.6
1949	1,443,607	9.7	3,216	90.3	111,531	31.3	76,326	21.4	70,584	19.8
1950	1,452,454	9.6	2,960	83.3	103,825	29.2	72,855	20.5	68,262	19.2
1951	1,482,099	9.7	2,812	75.0	106,702	28.4	75,192	20.0	70,569	18.8
1952	1,496,838	9.6	2,610	67.8	109,413	28.4	76,253	19.8	70,447	18.3
1953	1,517,541	9.6	2,385	61.1	108,405	27.8	76,332	19.6	69,393	17.8
1954	1,481,091	9.2	2,105	52.4	106,791	26.6	76,724	19.1	70,109	17.5
1955	1,528,717	9.3	1,901	47.0	106,903	26.4	77,351	19.1	69,153	17.1
1956	1,564,476	9.4	1,702	40.9	108,183	26.0	78,659	18.9	68,659	16.5
1957	1,633,128	9.6	1,746	41.0	112,094	26.3	81,088	19.1	69,561	16.3
1958	1,647,886	9.5	1,581	37.6	113,789	27.1	81,798	19.5	69,355	16.5
1959	1,656,814	9.4	1,588	37.4	112,008	26.4	80,778	19.0	68,613	16.2
1960	1,711,982	9.5	1,579	37.1	110,873	26.0	79,733	18.7	68,480	16.1
1961	1,701,522	9.3	1,573	36.9	107,956	25.3	78,482	18.4	68,767	16.1
1962	1,756,720	9.5	1,465	35.2	105,479	25.3	76,346	18.3	66,421	15.9
1963	1,813,549	9.6	1,466	35.8	103,390	25.2	74,648	18.2	64,640	15.8
1964	1,798,051	9.4	1,343	33.3	99,783	24.8	72,026	17.9	65,931	16.4
1965	1,828,136	9.4	1,189	31.6	92,866	24.7	66,419	17.7	60,859	16.2
1966	1,863,149	9.5	1,049	29.1	85,516	23.7	61,941	17.2	56,637	15.7
1967	1,851,323	9.4	987	28.0	79,028	22.4	58,127	16.5	54,934	15.6
1968	1,930,082	9.7	859	24.5	76,263	21.8	56,456	16.1	55,293	15.8
1969	1,921,990	9.5	801	22.2	75,073	20.9	56,085	15.6	50,749	14.1
1970	1,921,031	9.5	803	21.5	74,667	20.0	56,279	15.1	52,961	14.2
1971	1,927,542	9.3	668	18.8	67,981	19.1	50,496	14.2	47,818	13.4
1972	1,963,944	9.4	612	18.8	60,182	18.5	44,432	13.6	41,380	12.7
1973	1,973,003	9.3	477	15.2	55,581	17.7	40,664	13.0	38,309	12.2
1974	1,934,388	9.1	462	14.6	52,776	16.7	38,738	12.3	36,281	11.5
1975	1,892,879	8.8	403	12.8	50,525	16.1	36,416	11.6	33,796	10.7
1976	1,909,440	8.8	390	12.3	48,265	15.2	34,587	10.9	33,111	10.8
1977	1,899,597	8.6	373	11.2	46,975	14.1	32,860	9.9	33,052	9.9
1978	1,927,788	8.7	321	9.6	45,945	13.8	31,618	9.5	32,301	9.7
1979	1,913,841	8.5	336	9.6	45,665	13.1	30,980	8.9	32,969	9.4
1980	1,989,841	8.8	334	9.2	45,526	12.6	30,618	8.5	33,353*	9.2
1981	1,977,981	8.6	309	8.5	43,305	11.9	28,000	7.8	32,596*	9.0
1982	1,974,797	8.5	292	7.9	42,401	11.5	28,000	7.6	32,694*	8.9
1983	2,019,201	8.6	290	8.0	40,627	11.2	26,507	7.3	30,752*	8.5
1984	2,039,369	8.6	285	7.8	39,580	10.8	25,691	7.0	30,099*	8.2

TABLE 1-2. DEATHS, MATERNAL DEATHS, INFANT DEATHS, NEONATAL DEATHS, FETAL DEATHS, U.S., 1945-1989 (CONTINUED)

YEAR	DEATHS		MATERNAL DEATHS		INFANT DEATHS		NEONATAL DEATHS		FETAL DEATHS	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Ratio
1985	2,084,000	8.7	295	7.8	40,030	10.6	26,179	7.0	29,661	7.9
1986	2,105,361	8.7	272	7.2	38,891	10.4	25,212	6.7	28,972	7.7
1987	2,123,323	8.7	251	6.6	38,408	10.1	24,627	6.5	29,349	7.6
1988*	2,171,000	8.8	300	7.8	38,700	9.9	24,620	6.3	---	---
1989*	2,155,000	8.7	260	6.5	38,900	9.7	24,800	6.2	---	---

* Provisional data.
Rate per 1,000 population for deaths.
Rate per 1,000 live births for infant, neonatal and fetal deaths.
Rate per 100,000 live births for maternal deaths.
The following federal publications are the sources for federal data: Births, Marriages, Divorces and Deaths for January 1990; Annual Summary of Births, Marriages, Divorce and Deaths: United States, 1988; Advance Report of Final Natality Statistics, 1987; Advance Report of Final Mortality Statistics, 1987; Advance Report of Final Marriage Statistics, 1987; Advance Reports of Final Divorce Statistics, 1987. All of the above belong to the *Monthly Vital Statistics Report* series published by The National Center for Health Statistics. *Vital Statistics of the United States*, volumes 1-3, lists historical data.

Figure 1-2.



Rates are per 1,000 births.

TABLE 1-3. POPULATION, LIVE BIRTHS, BIRTHS TO UNWED MOTHERS, MARRIAGES, DIVORCES, OREGON, 1908-1989

YEAR	POPULATION	LIVE BIRTHS		BIRTHS TO UNWED MOTHERS		MARRIAGES		DIVORCES	
		Number	Rate	Number	Ratio	Number	Rate	Number	Rate
1908	621,109	8,322	13.3	---	---	---	---	---	---
1909	647,055	8,656	13.3	---	---	4,863	7.5	---	---
1910	673,002	9,176	13.6	---	---	5,541	8.2	---	---
1911	684,847	9,562	13.8	---	---	6,846	9.9	---	---
1912	696,692	11,189	16.0	---	---	6,613	9.4	---	---
1913	708,537	11,033	15.5	---	---	5,382	7.5	---	---
1914	720,382	11,624	16.1	---	---	5,170	7.1	---	---
1915	732,226	12,232	16.7	---	---	4,983	6.8	---	---
1916	744,071	12,960	17.4	---	---	5,396	7.2	---	---
1917	755,916	13,147	17.4	---	---	6,196	8.2	---	---
1918	767,761	13,295	17.3	---	---	5,281	6.9	---	---
1919	779,606	13,638	17.5	---	---	6,605	8.5	---	---
1920	791,701	14,954	18.8	---	---	7,557	9.5	---	---
1921	808,325	15,607	19.3	---	---	7,643	9.4	---	---
1922	824,949	15,087	18.3	---	---	6,691	8.1	---	---
1923	841,573	14,992	17.8	---	---	7,151	8.4	---	---
1924	858,197	15,818	18.4	---	---	6,937	8.1	---	---
1925	874,800	15,579	17.8	---	---	6,999	8.0	---	---
1926	891,400	14,929	16.7	---	---	7,160	8.0	3,128	3.5
1927	908,100	14,637	16.1	---	---	7,392	8.1	3,149	3.5
1928	924,700	14,159	15.3	---	---	7,625	8.2	3,090	3.3
1929	941,300	13,244	14.1	---	---	8,243	8.7	3,197	3.4
1930	958,450	13,473	14.1	---	---	7,678	8.0	2,825	2.9
1931	967,200	13,227	13.7	---	---	7,346	7.6	2,417	2.5
1932	980,600	12,845	13.1	---	---	6,668	6.8	1,728	1.8
1933	994,000	12,228	12.3	---	---	5,715	5.7	1,844	1.9
1934	1,007,400	13,071	13.0	---	---	6,237	6.2	2,248	2.2
1935	1,020,800	13,143	12.9	---	---	6,795	6.7	2,304	2.3
1936	1,034,100	14,119	13.7	---	---	7,433	7.2	2,578	2.5
1937	1,047,500	15,495	14.8	---	---	7,602	7.3	2,718	2.6
1938	1,061,000	16,333	15.4	---	---	6,734	6.3	3,162	3.0
1939	1,074,000	16,727	15.6	---	---	4,902	4.6	3,422	3.2
1940	1,093,000	17,522	16.0	237	13.5	5,998	5.5	3,543	3.2
1941	1,107,000	18,784	17.0	229	12.2	7,445	6.7	4,122	3.7
1942	1,148,500	22,283	19.4	247	11.1	8,768	7.6	4,725	4.1
1943	1,167,200	25,380	21.7	328	12.9	9,272	7.9	5,643	4.8
1944	1,221,000	23,444	19.2	407	17.4	8,675	7.1	6,619	5.4

TABLE 1-3. POPULATION, LIVE BIRTHS, BIRTHS TO UNWED MOTHERS, MARRIAGES, DIVORCES, OREGON, 1908-1989 (CONTINUED)

YEAR	POPULATION	LIVE BIRTHS		BIRTHS TO UNWED MOTHERS		MARRIAGES		DIVORCES	
		Number	Rate	Number	Ratio	Number	Rate	Number	Rate
1945	1,227,200	23,339	19.0	504	21.6	9,764	8.0	7,949	6.5
1946	1,347,900	29,566	21.9	517	17.5	14,674	10.9	10,241	7.6
1947	1,423,300	36,190	25.4	608	16.8	12,881	9.1	6,707	4.7
1948	1,470,800	34,937	23.8	575	16.5	12,373	8.4	6,405	4.4
1949	1,511,200	35,062	23.2	502	14.3	10,746	7.1	6,274	4.2
1950	1,521,341	35,991	23.7	667	18.5	11,300	7.4	5,943	3.9
1951	1,568,000	37,317	23.8	623	16.7	10,118	6.5	6,133	3.9
1952	1,602,100	39,752	24.8	780	19.6	9,998	6.2	6,311	3.9
1953	1,636,800	39,866	24.4	772	19.4	10,502	6.4	6,373	3.9
1954	1,662,680	38,550	23.2	909	23.6	9,567	5.8	6,130	3.7
1955	1,690,840	38,678	22.9	880	22.8	10,632	6.3	6,158	3.6
1956	1,734,650	38,432	22.2	958	24.9	10,568	6.1	5,827	3.4
1957	1,737,470	37,828	21.8	1,088	28.8	9,961	5.7	5,261	3.0
1958	1,728,550	36,295	21.0	1,091	30.1	9,896	5.7	5,452	3.2
1959	1,777,000	36,634	20.6	1,217	33.2	10,166	5.7	6,009	3.4
1960	1,768,687	38,347	21.7	1,250	32.6	10,590	6.0	5,711	3.2
1961	1,816,345	37,475	20.6	1,433	38.2	10,798	5.9	6,023	3.3
1962	1,825,138	36,983	20.3	1,499	40.5	11,122	6.1	6,074	3.3
1963	1,856,190	34,863	18.8	1,708	49.0	11,786	6.3	6,180	3.3
1964	1,906,000	33,500	17.6	1,754	52.4	12,297	6.5	6,486	3.4
1965	1,972,150	32,955	16.7	2,094	63.5	13,252	6.7	6,219	3.2
1966	1,999,780	32,446	16.2	2,330	71.8	13,981	7.0	6,764	3.4
1967	2,006,360	31,446	15.7	2,478	78.8	14,401	7.2	7,603	3.8
1968	2,050,900	32,136	15.7	2,831	88.1	16,125	7.9	8,258	4.0
1969	2,081,640	33,834	16.3	3,000	88.7	16,874	8.1	8,643	4.2
1970	2,091,385	35,353	16.9	2,912	82.4	17,302	8.3	9,583	4.6
1971	2,143,010	33,344	15.6	2,603	78.1	18,100	8.4	10,687	5.0
1972	2,183,270	31,308	14.3	2,552	81.5	19,265	8.8	11,706	5.4
1973	2,224,900	30,902	13.9	2,599	84.1	19,661	8.8	12,382	5.6
1974	2,266,000	32,506	14.3	2,984	91.8	20,002	8.8	13,538	6.0
1975	2,299,000	33,352	14.5	3,382	101.4	19,322	8.4	15,526	6.8
1976	2,341,750	34,840	14.9	3,825	109.8	19,182	8.2	16,070	6.9
1977	2,396,100	37,467	15.6	4,596	122.7	20,303	8.5	16,372	6.8
1978	2,472,000	38,964	15.8	5,279	135.5	21,055	8.5	16,965	6.9
1979	2,544,000	41,564	16.3	5,599	134.7	22,063	8.7	17,584	6.9

TABLE 1-3. POPULATION, LIVE BIRTHS, BIRTHS TO UNWED MOTHERS, MARRIAGES, DIVORCES, OREGON, 1908-1989 (CONTINUED)

YEAR	POPULATION	LIVE BIRTHS		BIRTHS TO UNWED MOTHERS		MARRIAGES		DIVORCES	
		Number	Rate	Number	Ratio	Number	Rate	Number	Rate
1980	2,633,105	43,091	16.4	6,360	147.6	23,004	8.7	17,762	6.7
1981	2,660,435	42,974	16.2	6,384	148.6	22,904	8.6	17,697	6.7
1982	2,656,185	41,012	15.4	6,484	158.1	24,186	9.1	16,792	6.3
1983	2,634,993	39,949	15.2	6,467	161.0	23,346	8.9	16,173	6.1
1984	2,660,000	39,536	14.9	6,861	173.5	23,074	8.7	15,631	5.9
1985	2,675,800	39,419	14.7	7,385	187.3	22,408	8.4	15,736	5.9
1986	2,659,500	38,850	14.6	7,999	205.9	22,015	8.3	15,774	5.9
1987	2,690,000	38,674	14.4	8,659	223.9	22,301	8.3	15,602	5.8
1988	2,741,000	39,850	14.5	9,377	235.3	23,405	8.5	15,187	5.5
1989	2,791,000	41,223	14.8	10,437	253.2	23,908	8.6	15,083	5.4

Rate per 1,000 population for live births, marriages and divorces.
Ratio per 1,000 live births for births to unwed mothers.

Figure 1-3.

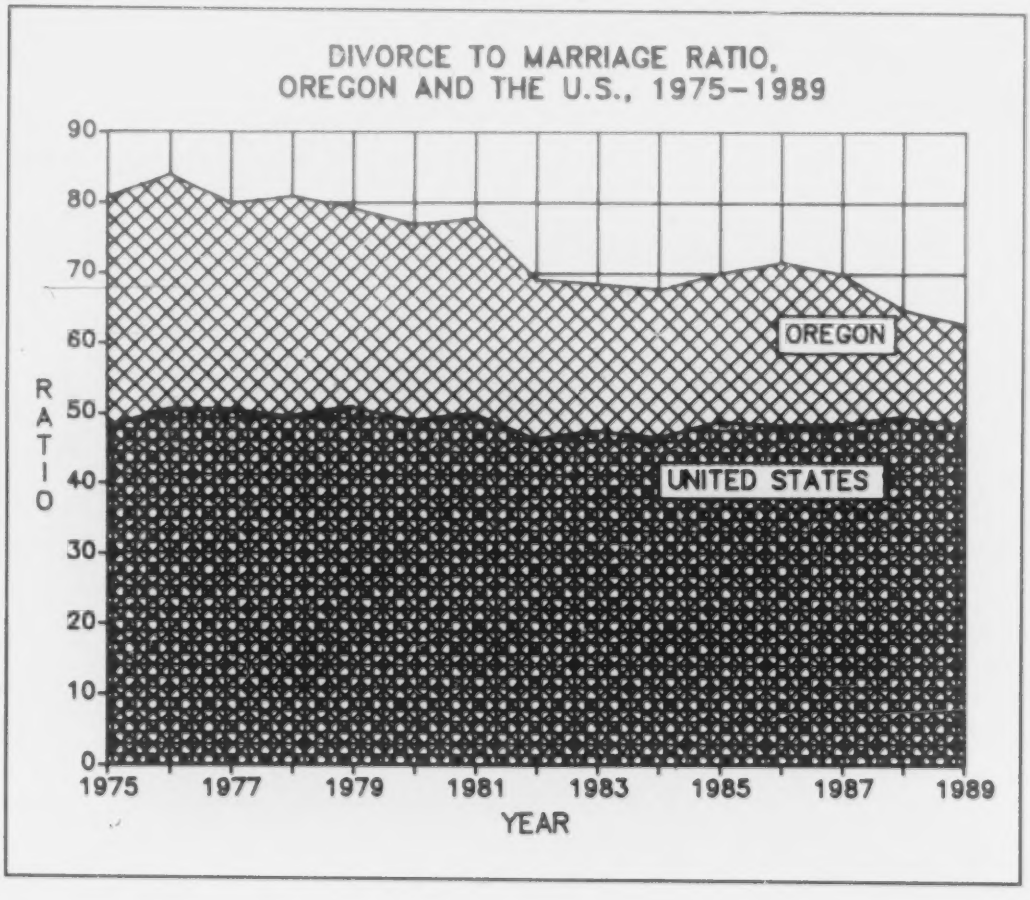


TABLE 1-4. DEATHS, MATERNAL DEATHS, INFANT DEATHS, NEONATAL DEATHS, FETAL DEATHS, OREGON, 1908-1989

YEAR	DEATHS		MATERNAL DEATHS		INFANT DEATHS		NEONATAL DEATHS		FETAL DEATHS	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Ratio
1908	4,970	8.0	59	709.0	676	81.2	---	---	---	---
1909	5,470	8.4	70	808.7	756	80.7	---	---	---	---
1910	6,089	9.0	91	991.7	733	79.9	---	---	---	---
1911	6,360	9.2	91	951.7	753	78.7	---	---	---	---
1912	5,898	8.4	63	563.1	653	58.6	---	---	---	---
1913	6,714	9.4	60	543.8	684	61.9	---	---	---	---
1914	6,446	8.9	72	619.4	577	49.6	---	---	---	---
1915	6,718	9.1	74	605.0	583	47.6	---	---	---	---
1916	7,107	9.5	88	679.0	725	55.9	---	---	---	---
1917	7,349	9.7	87	661.7	837	63.6	---	---	---	---
1918	9,842	12.8	106	797.3	907	68.2	---	---	---	---
1919	8,881	11.4	101	740.6	845	61.9	---	---	---	---
1920	9,186	11.6	112	749.0	927	61.9	---	---	---	---
1921	8,324	10.2	117	749.7	791	50.6	---	---	---	---
1922	9,381	11.3	115	762.2	886	58.7	---	---	---	---
1923	8,983	10.6	103	687.0	853	56.9	---	---	---	---
1924	9,511	11.1	94	594.3	834	52.7	---	---	---	---
1925	9,596	10.9	95	609.8	787	50.5	---	---	---	---
1926	9,885	11.1	85	569.4	769	51.5	---	---	---	---
1927	10,222	11.2	91	621.7	693	47.3	---	---	---	---
1928	10,493	11.3	86	607.4	651	46.0	---	---	410	29.0
1929	10,680	11.3	75	566.3	633	47.7	---	---	415	31.4
1930	10,544	11.0	81	601.2	671	49.8	---	---	390	28.9
1931	10,245	10.6	61	461.2	578	43.7	---	---	360	27.2
1932	10,272	10.5	64	498.2	530	41.3	---	---	322	25.1
1933	10,450	10.5	64	523.4	493	40.3	---	---	329	26.9
1934	10,539	10.5	79	604.4	519	39.7	---	---	320	24.5
1935	11,429	11.2	72	547.8	537	40.8	---	---	300	22.8
1936	12,434	12.0	77	545.4	626	44.3	409	29.0	300	21.5
1937	12,369	11.8	56	361.4	649	41.9	415	26.8	340	22.4
1938	11,777	11.1	53	324.5	631	38.6	418	25.6	353	21.6
1939	11,779	11.0	43	257.1	580	34.7	381	22.8	322	19.3
1940	12,329	11.3	45	256.8	592	33.2	413	23.6	365	20.8
1941	12,123	10.9	43	228.9	589	30.7	397	20.9	333	17.7
1942	12,520	10.9	37	166.0	669	30.0	456	20.4	362	16.2
1943	13,440	11.5	37	145.8	776	30.6	466	18.4		
1944	12,580	10.3	41	147.9	706	30.1	504	21.5	454	19.4

TABLE 1-4. DEATHS, MATERNAL DEATHS, INFANT DEATHS, NEONATAL DEATHS, FETAL DEATHS, OREGON, 1908-1989 (CONTINUED)

YEAR	DEATHS		MATERNAL DEATHS		INFANT DEATHS		NEONATAL DEATHS		FETAL DEATHS	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Ratio
1945	12,325	10.0	29	124.3	660	28.3	473	20.3	402	17.2
1946	12,828	9.5	28	94.7	803	27.2	594	20.1	515	17.4
1947	13,460	9.5	35	96.7	896	24.8	645	17.8	562	15.5
1948	13,872	9.4	15	42.9	892	25.5	671	19.2	508	14.5
1949	13,698	9.1	20	57.0	862	24.6	661	18.9	488	13.9
1950	13,888	9.1	22	61.1	816	22.7	627	17.4	493	13.7
1951	14,489	9.2	5	13.4	883	23.7	637	17.1	498	13.3
1952	14,438	9.0	11	27.7	951	23.9	696	17.5	500	12.6
1953	14,598	8.9	15	37.6	938	23.5	680	17.1	524	13.1
1954	14,665	8.8	9	23.3	868	22.5	632	16.4	512	13.3
1955	15,303	9.1	8	20.7	934	24.1	681	17.6	497	12.8
1956	15,328	8.8	11	28.6	887	23.1	645	16.8	504	13.1
1957	15,633	9.0	8	21.1	828	21.9	587	15.5	499	13.2
1958	15,449	8.9	6	16.5	844	23.3	597	16.4	448	12.3
1959	16,699	9.4	9	24.6	927	25.3	664	18.1	469	12.8
1960	16,787	9.5	14	36.5	891	23.2	635	16.6	493	12.9
1961	16,885	9.3	8	21.3	861	23.0	604	16.1	454	16.1
1962	17,221	9.4	7	18.9	811	21.9	554	15.0	461	12.5
1963	18,017	9.7	7	20.1	747	21.4	551	15.8	410	11.8
1964	18,138	9.5	4	11.9	754	22.5	532	15.9	402	12.0
1965	18,133	9.2	1	3.0	696	21.1	477	14.5	421	12.8
1966	18,979	9.5	3	9.2	697	21.5	506	15.6	387	11.9
1967	18,908	9.4	4	12.7	616	19.6	436	13.9	395	12.6
1968	19,017	9.3	3	9.3	637	19.8	460	14.3	365	11.4
1969	19,548	9.4	4	11.8	592	17.5	410	12.1	194	1/
1970	19,530	9.3	5	14.1	555	15.7	381	10.8	486	13.7
1971	20,087	9.4	5	15.0	615	18.4	416	12.5	408	12.2
1972	20,216	9.3	5	16.0	528	16.9	359	11.5	391	12.5
1973	20,881	9.4	1	3.2	466	15.1	329	10.6	312	10.1
1974	20,320	9.0	3	9.2	488	15.0	330	10.2	266	8.2
1975	20,142	8.8	3	9.0	502	15.1	330	9.9	284	8.5
1976	20,459	8.7	-	-	444	12.7	277	8.0	280	8.0
1977	20,457	8.5	5	13.3	453	12.1	293	7.8	283	7.6
1978	20,870	8.4	2	5.1	502	12.9	299	7.7	302	7.8
1979	21,024	8.3	1	2.4	450	10.8	276	6.6	307	7.4

TABLE 1-4. DEATHS, MATERNAL DEATHS, INFANT DEATHS, NEONATAL DEATHS, FETAL DEATHS, OREGON, 1908-1989 (CONTINUED)

YEAR	DEATHS		MATERNAL DEATHS		INFANT DEATHS		NEONATAL DEATHS		FETAL DEATHS	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Ratio
1980	21,756	8.3	1	2.3	521	12.1	303	7.0	294	6.8
1981	21,798	8.2	3	7.0	466	10.8	299	7.0	298	6.9
1982	21,594	8.1	8	19.5	433	10.6	253	6.2	253	6.2
1983	22,361	8.5	6	15.0	385	9.6	215	5.4	268	6.7
1984	23,101	8.7	4	10.1	388	9.8	190	4.8	257	6.5
1985	23,824	8.9	4	10.1	387	9.8	211	5.3	237	6.0
1986	23,328	8.8	4	10.3	368	9.5	183	4.7	268	6.9
1987	24,181	9.0	2	5.2	402	10.4	213	5.5	222	5.7
1988	24,557	9.0	3	7.5	339	8.5	181	4.5	235	5.9
1989	24,679	8.8	4	9.7	364	8.8	205	5.0	230	5.6

Rate per 1,000 population for deaths.
Rate per 1,000 live births for infant and neonatal deaths.
Ratio per 1,000 live births for fetal deaths.
Rate per 100,000 live births for maternal deaths.
1/ Incomplete total.

TABLE 1-5 POPULATION, LIVE BIRTHS, BIRTHS TO UNWED MOTHERS BY COUNTY OF RESIDENCE. MARRIAGES, DISSOLUTION OF MARRIAGES, BY COUNTY OF OCCURRENCE, OREGON, 1989

COUNTY	ESTIMATED POPULATION 7/1/89	LIVE BIRTHS		BIRTHS TO UNWED MOTHERS		MARRIAGES		DISSOLUTION OF MARRIAGES	
		NUMBER	RATE	NUMBER	RATIO	NUMBER	RATE	NUMBER	RATE
TOTAL	2,791,000	41,223	14.8	10,437	253.2	23,908	8.6	15,083	5.4
BAKER	15,350	185	12.1	42	227.0	146	9.5	83	5.4
BENTON	71,000	853	12.0	127	148.9	509	7.2-	310	4.4-
CLACKAMAS	265,500	3,653	13.8	685	187.5	2,216	8.3	1,099	4.1-
CLATSOP	35,200	459	13.0	128	278.9	372	10.6+	206	5.9
COLUMBIA	37,300	534	14.3	134	250.9	274	7.3	777	20.8+
COOS	60,300	777	12.9	223	287.0	546	9.1	363	6.0
CROOK	13,600	226	16.6	61	269.9	124	9.1	84	6.2
CURRY	19,200	204	10.6	60	294.1	185	9.6	106	5.5
DESCHUTES	70,600	1,027	14.5	233	226.9	746	10.6+	325	4.6-
DOUGLAS	95,000	1,354	14.3	366	270.3	833	8.8	478	5.0
GILLIAM	1,850	20	10.8	1	50.0	15	8.1	184	99.5+
GRANT	8,300	116	14.0	11	94.8	57	6.9	65	7.8
HARNEY	7,400	112	15.1	14	125.0	48	6.5-	45	6.1+
HOOD RIVER	17,000	289	17.0	55	190.3	213	12.5+	175	10.3+
JACKSON	145,000	1,981	13.7	526	265.5	1,370	9.4+	991	6.8
JEFFERSON	12,100	278	23.0	103	370.5	112	9.3	46	3.8-
JOSEPHINE	64,200	808	12.6	255	315.6	482	7.5-	374	5.8
KLAMATH	58,500	784	13.4	233	297.2	432	7.4-	359	6.1+
LAKE	7,400	107	14.5	23	215.0	50	6.8	56	7.6+
LANE	280,000	3,930	14.0	1,016	258.5	2,461	8.8	1,381	4.9-
LINCOLN	39,500	507	12.8	140	276.1	501	12.7+	203	5.1
LINN	90,000	1,350	15.0	361	267.4	850	9.4+	615	6.8+
MALHEUR	26,000	463	17.8	135	291.6	155	6.0-	108	4.2-
MARION	224,000	3,624	16.2	1,039	286.7	1,961	8.8	558	2.5-
MORROW	7,500	121	16.1	36	297.5	46	6.1-	37	4.9
MULTNOMAH	581,000	9,068	15.6	2,733	301.4	5,179	8.9	2,857	4.9-
POLK	47,800	651	13.6	183	281.1	328	6.9-	632	13.2+
SHERMAN	2,000	18	9.0	4	222.2	4	2.0-	8	4.0
TILLAMOOK	21,600	235	10.9	55	234.0	176	8.1	268	12.4+
UMATILLA	58,100	957	16.5	327	341.7	459	7.9	338	5.8
UNION	23,300	343	14.7	61	177.8	198	8.5	91	3.9-
WALLOWA	7,200	77	10.7	11	142.9	50	6.9	52	7.2
WASCO	21,100	266	12.6	71	266.9	195	9.2	126	6.0
WASHINGTON	295,000	4,855	16.5	745	153.5	2,078	7.0-	1,196	4.1-
WHEELER	1,400	12	8.6	0	.0	9	6.4	59	42.1+
YAMHILL	60,700	979	16.1	240	245.1	528	8.7	428	7.1+

NOTE: RATE PER 1,000 POPULATION FOR LIVE BIRTHS, MARRIAGES, AND DISSOLUTION OF MARRIAGES

NOTE: RATIO PER 1,000 LIVE BIRTHS FOR BIRTHS TO UNWED MOTHERS

TABLE 1-6. DEATHS, INFANT DEATHS, NEONATAL DEATHS, FETAL DEATHS, BY COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	DEATHS		INFANT DEATHS		NEONATAL DEATHS		FETAL DEATHS	
	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
TOTAL.....	24,679	8.8	364	8.8	205	5.0	230	5.6
BAKER.....	196	12.8	1	5.4	1	5.4	3	16.2
BENTON.....	426	6.0	6	7.0	4	4.7	7	8.2
CLACKAMAS..	2,022	7.6	35	9.6	19	5.2	20	5.5
CLATSOP....	337	9.6	1	2.2	1	2.2	1	2.2
COLUMBIA...	286	7.7	2	3.7	2	3.7	3	5.6
COOS.....	700	11.6	7	9.0	3	3.9	6	7.7
CROOK.....	132	9.7	0	.0	0	.0	2	8.8
CURRY.....	190	9.9	2	9.8	1	4.9	0	.0
DESCHUTES..	586	8.3	13	12.7	8	7.8	8	7.8
DOUGLAS....	890	9.4	13	9.6	6	5.2	11	8.1
GILLIAM....	18	9.7	0	.0	0	.0	0	.0
GRANT.....	82	9.9	0	.0	0	.0	0	.0
HARNEY.....	86	11.6	0	.0	0	.0	0	.0
HOOD RIVER.	143	8.4	0	.0	0	.0	2	6.9
JACKSON....	1,412	9.7	17	8.6	9	4.5	8	4.0
JEFFERSON..	97	8.0	4	14.4	2	7.2	1	3.6
JOSEPHINE..	755	11.8	8	9.9	3	3.7	6	7.4
KLAMATH....	546	9.3	11	14.0	6	7.7	3	3.8
LAKE.....	77	10.4	0	.0	0	.0	2	18.7
LANE.....	2,271	8.1	21	5.3	13	3.3	22	5.6
LINCOLN....	463	11.7	6	11.8	2	3.9	1	2.0
LINN.....	832	9.2	8	5.9	4	3.0	7	5.2
MALHEUR....	252	9.7	5	11.2	2	4.5	2	4.3
MARION.....	2,062	9.2	37	10.2	22	6.1	24	6.6
MORROW.....	69	9.2	4	33.1	3	24.8	2	16.5
MULTNOMAH..	5,691	9.8	104	11.5	57	6.3	41	4.5
POLK.....	413	8.6	4	6.1	4	6.1	7	10.8
SHERMAN....	27	13.5	0	.0	0	.0	0	.0
TILLAMOOK..	236	10.9	4	17.0	4	17.0	1	4.3
UMATILLA...	512	8.8	9	9.4	9	9.4	5	5.2
UNION.....	221	9.5	6	17.5	2	5.8	0	.0
WALLOWA....	81	11.3	1	13.0	0	.0	0	.0
WASCO.....	205	9.7	1	3.8	0	.0	2	7.5
WASHINGTON.	1,791	6.1	31	6.4	16	3.3	26	5.4
WHEELER....	14	10.0	0	.0	0	.0	0	.0
YAMHILL....	558	9.2	3	3.1	2	2.0	7	7.2

NOTE: RATE PER 1,000 POPULATION FOR DEATHS
NOTE: RATE PER 1,000 LIVE BIRTHS FOR INFANT, NEONATAL, & FETAL DEATHS

TABLE 1-7. POPULATION, BIRTHS AND DEATHS BY CITY OF RESIDENCE, OREGON, 1989

CITY OF RESIDENCE	ESTIMATED POPULATION 7/1/89	BIRTHS		DEATHS	
		Number	Rate	Number	Rate
Albany (Linn, Benton)	28,030	510	18.2	269	9.6
Ashland (Jackson)	16,740	150	9.0	151	9.0
Beaverton (Washington)	44,265	981	22.2	333	7.5
Bend (Deschutes)	19,510	353	18.1	164	8.4
Coos Bay (Coos)	14,220	277	19.5	196	13.8
Corvallis (Benton)	43,715	537	12.3	278	6.4
Eugene (Lane)	109,785	1,558	14.2	958	8.7
Forest Grove (Washington)	12,180	249	20.4	139	11.4
Grants Pass (Josephine)	16,990	326	19.2	259	15.2
Gresham (Multnomah)	65,470	836	12.8	368	5.6
Hillsboro (Washington)	33,810	681	20.1	221	6.5
Keizer (Marion)	20,585	250	12.1	166	8.1
Klamath Falls (Klamath)	17,210	267	15.5	213	12.4
LaGrande (Union)	11,580	188	16.2	120	10.4
Lake Oswego (Multnomah, Clackamas, Washington)	29,425	331	11.2	179	6.1
Lebanon (Linn)	10,485	196	18.7	142	13.5
McMinnville (Yamhill)	16,310	285	17.5	164	10.1
Medford (Jackson)	45,290	772	17.0	532	11.7
Milwaukie (Clackamas)	18,830	596	31.7	311	16.5
Newberg (Yamhill)	11,890	230	19.3	139	11.7
Oregon City (Clackamas)	14,975	354	23.6	155	10.4
Pendleton (Umatilla)	14,765	209	14.2	120	8.1
Portland (Multnomah, Clackamas, Washington)	432,175	6,933	16.0	4,653	10.8
Roseburg (Douglas)	16,635	350	21.0	239	14.4
Salem (Marion, Polk)	99,860	1,955	19.6	1,169	11.7
Springfield (Lane)	41,460	878	22.2	353	8.5
The Dalles (Wasco)	10,590	165	15.6	133	12.6
Tigard (Washington)	27,050	579	21.4	228	8.4
Tualatin (Washington)	13,340	205	15.4	31	2.3
West Linn (Clackamas)	14,270	220	15.4	74	5.2
Woodburn (Marion)	12,445	302	24.3	195	15.7

Cities of 10,000 or more population listed.
Counties listed in parenthesis.
Population Source: Center for Population Research and Census, Portland State University, July 1, 1989

TABLE 1-8. **U.S.** RATES OF LOW BIRTHWEIGHT, NO CARE, INADEQUATE CARE, THIRD TRIMESTER CARE, AND LESS THAN FIVE PRENATAL VISITS, 1975-1988

U.S. YEAR	LOW BIRTH-WEIGHT RATE	NO CARE	INADEQUATE CARE 1/ RATE	THIRD TRIMESTER CARE	LESS THAN FIVE VISITS
1975	73.5	9.7	93.9	42.9	74.7
1976	72.4	9.0	89.0	40.2	70.7
1977	70.6	11.4	83.7	40.0	69.4
1978	70.9	13.5	79.0	38.3	67.7
1979	70.9	11.3	80.1	36.2	63.5
1980	68.2	13.2	84.6	37.2	66.9
1981	68.0	13.8	84.6	37.5	66.4
1982	67.3	15.5	88.3	39.0	69.8
1983	68.1	16.6	86.8	38.3	67.9
1984	67.1	16.7	85.5	38.6	66.7
1985	67.4	16.6	85.6	39.7	65.5
1986	68.0	18.9	87.1	40.2	66.4
1987	68.9	19.6	88.1	40.8	66.8
1988	69.3	18.8	89.7	42.1	68.4

TABLE 1-9. **OREGON** RATES OF LOW BIRTHWEIGHT, NO CARE, INADEQUATE CARE, THIRD TRIMESTER CARE, AND LESS THAN FIVE PRENATAL VISITS, 1975-1989

OREGON YEAR	LOW BIRTH-WEIGHT RATE	NO CARE	INADEQUATE CARE 1/ RATE	THIRD TRIMESTER CARE	LESS THAN FIVE VISITS
1975	56.6	9.0	72.4	39.3	52.0
1976	54.0	8.0	66.8	37.1	48.2
1977	51.8	8.3	68.6	39.4	47.0
1978	50.9	8.4	66.9	39.1	45.5
1979	51.2	6.0	66.2	40.0	44.7
1980	50.4	5.4	58.0	34.6	40.5
1981	48.5	8.7	63.1	38.0	42.0
1982	49.2	11.2	70.3	40.8	47.8
1983	50.0	11.2	66.5	38.5	44.8
1984	51.5	11.0	68.2	41.0	46.0
1985	51.3	12.0	72.9	43.6	47.4
1986	51.3	13.4	83.3	52.0	54.4
1987	54.0	16.5	86.2	50.3	58.4
1988	52.6	13.8	83.6	49.8	54.5
1989	52.2	12.0	73.3	42.7	48.6

Note: All rates are per 1,000 live births.
1/ Inadequate prenatal care is defined as care that began in the third trimester or consisted of less than five visits.

NATALITY

Natality

NUMBER OF BIRTHS. For the second time in the 1980s, more Oregon women gave birth than they did in the preceding year. The number of births rose by 1,373 and totaled 41,223. The birth rate rose from 14.5 to 14.8 births per 1,000 Oregon residents. This represents a 2 percent increase.

In 1980, Oregon recorded its highest number of births. From 1980 to 1987 both the number of babies born and the crude birth rate declined. A two-year increase may indicate a new trend in childbearing patterns. Changes in birth patterns are measured over decades and generations. The women born at the end of the baby boom years are just now passing through their peak years for childbearing (25-29). From 1977 to 1983, Oregon experienced what is referred to as an "echo boom" (Figure 1-1).

More babies born to Oregonians in 1989

Only from 1976 to 1981 were Oregon's crude rates higher than the U.S. Typically Oregon has lower birth rates. Oregon's crude birth rate of 14.8 per 1,000 population in 1989 is 8.6 percent lower than the U.S. crude rate of 16.2.

Changes in crude rates are affected by population changes and the number of babies born to mothers in specific age groups. The fertility rate is a reflection of the number of births experienced by women of childbearing age. It is based on the number of births per 1,000 women age 15 to 44. Oregon's 1989 fertility rate of 63.3 is 8.0 percent lower than the U.S. figure of 68.8.[1] While the U.S. fertility rate rose 2.2 percent from 1988 to 1989, the Oregon fertility rate increased by 2.4 percent during the same time period. Oregon's fertility rate had decreased steadily for the first seven years of the decade. In 1988, the trend reversed direction. The increases seen in 1988 and 1989 may be a reversal of the downward trend in fertility rates. There *is* one consistent trend: the birth rates for older mother (35+) continue to increase. Mothers in the 35- to 39-year-old age group have almost doubled their fertility rates since 1975.

Comparison of the Oregon to U.S. race-specific birth rates would be more accurate than comparison of crude rates, since Oregon's population consists of a smaller proportion of racial minorities. Unfortunately, race-specific rates for Oregon are available only during census years.

LOW BIRTHWEIGHT. Not all of the thousands of infants born every year thrive and become normal healthy adults. The center for Health Statistics has two health status indicators which address this issue. The first, the low birthweight (LBW) rate, is the proportion of infants who weight less than 2,500 grams at birth. The low birthweight rate for 1989 was 52.2 per 1,000 live births (number = 2,152, Table 1-9). In Oregon, this rate has fluctuated little over the last ten years. These infants require extensive medical treatment and sometimes have lifelong handicapping conditions. Major factors associated with the risk of having a low weight baby include multiple

1. National Center for Health Statistics: Annual summary of births, marriages, divorces and deaths: United States, 1989. *Monthly Vital Statistics Report*, Vol. 38, No. 13. Public Service, Hyattsville, Maryland, August 31, 1990.

births, inadequacy of prenatal care, single marital status, a previous fetal or infant death, and low maternal educational attainment.[2] Other factors commonly associated with low birthweight are non-white race and age of the mother.

During the late 1970s and early 80s, Oregon's LBW rates were typically 26 to 27 percent lower than the U.S. rates. In 1987, the last year national data is available, Oregon's rate was 21.6 percent lower than the United States. Rates in the both the U.S. and Oregon have been fluctuating yearly. No significant trend can be seen over time.

The second type of health status indicator uses death information. Neonatal deaths and infant deaths are closely linked to low birthweight. Infant deaths are discussed in the Fetal and Infant Death section of this report.

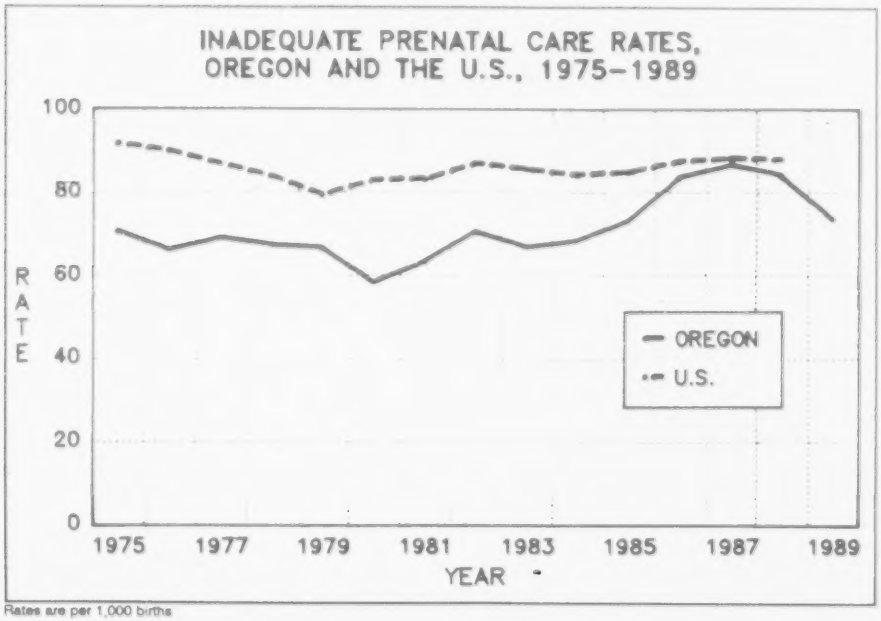
Risk factor of inadequate prenatal care decreases 12.3 percent

PRENATAL CARE. Public health services can do little to influence the most important factor which puts an infant at greatest risk of low birthweight: multiple births (e.g., twins). However, the second major predictor of low birthweight is adequacy of prenatal care. Adequate care is defined as care starting before the last trimester and consisting of more than four visits.

Oregon's rate of inadequate care (73.3 per 1,000 live births) decreased in 1989 for the second straight year in a row (Figure 2-1). This is a 12.3 percent drop from the 1988 rate of 83.6. The trend was downward from 1975 to 1980, but in 1981, it reversed direction. From 1980 to 1987, the Oregon inadequate prenatal care rate rose 48.6 percent, from 58.0 to 86.2.

Analysis of birth outcomes by different levels of prenatal care is difficult. Length of gestation is a confounding factor which influences both prenatal care and birthweight. Good prenatal care may lengthen gestation and

Figure 2-1.



Rates are per 1,000 births

2. *Medicaid Support and Birth Outcome, Oregon, 1984*. Center for Health Statistics, Health Division, Oregon Department of Human Resources, 1986.

decrease the incidence of intrauterine growth retardation. These two factors which affect birthweight may result in lowering morbidity and mortality associated with low birthweight. The decrease in the inadequate care rate is a positive health trend for Oregon women of child-bearing age.

In the past, Oregon's rate of inadequate prenatal care had been consistently below the national rate. Now, the gap between the Oregon and U.S. rates has virtually disappeared. In 1980, the Oregon rate (58.0) was 31.4 percent lower than the U.S. rate (84.6). By 1989, the Oregon rate (86.2) was only 1.8 percent lower than the 1988 U.S. rate (87.8).[3]

Hispanic ethnicity is now asked as a separate question on the birth certificate. Hispanic heritage is denoted for mother and father and is used to categorize the ethnicity of the child. Non-Hispanic whites have an inadequate prenatal care rate 14.5 percent lower than the state rate. The mothers of Hispanic children have an inadequate prenatal care rate nearly three times as high as for mothers of non-Hispanic children (172.6 and 62.7, respectively). Inadequate prenatal care rates are vastly different among the races. African American women have the highest rates of inadequate prenatal care among both Hispanic and non-Hispanic ethnic groups. Indian women, both Hispanic and non-Hispanic, have the second highest rates of inadequate care. Inadequate prenatal care rates are lowest among Chinese and Japanese groups, who in 1989 are all in the non-Hispanic ethnic category.

Prenatal Care By Mother's Education

EDUCATIONAL LEVEL	INADEQUATE CARE	COMPARISON RATIO
<12	167.0	6.2
12	69.0	2.4
>12	27.0	1.0

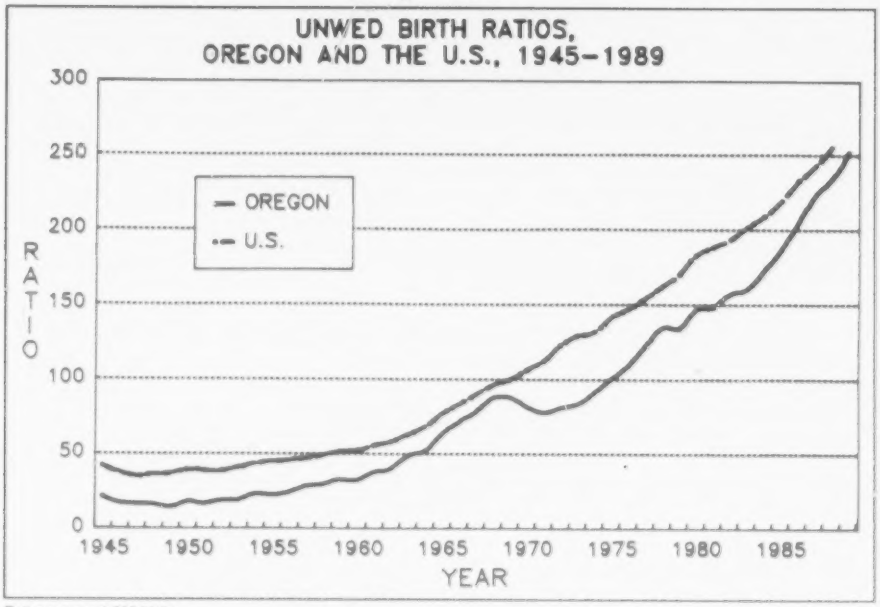
Although based on small numbers, Oregon women less than 15 years old were least likely to obtain adequate prenatal care (inadequate care rate = 367.6). Again, women in the 30- to 34-year-old age group obtained the best rate of care. Only 44 out of every 1,000 women in this age group experienced inadequate prenatal care. Inadequate prenatal care rates are over three times as high for mothers with less than twelve years of education than for mothers with a high school education or more (167.0 vs. 47.6). The rate of inadequate prenatal care varied between a low of 142.7 for mothers with 11 years of education to a high of 316.2 for mothers with no education. However, for mothers with more than a high school education, the rate declined steadily from 69.0 for mothers with 12 years of education to 9.4 for mothers with 17 or more years of education (Table 2-25). Clearly, educational attainment is closely associated with adequacy of prenatal care. As educational levels rise, adequacy of prenatal care increases.

The relationship between inadequate prenatal care and low birthweight is almost as clear. Mothers who have inadequate care tend to be at greater risk of having a low birthweight baby. Infants weighing under 1,000 grams at birth (2 pounds, 3 ounces) had the highest rate (441.6) while the rate for infants 4,000-4,999 grams was 43.6. This was the lowest inadequate care rate in any weight category. The rate for infants 5,000 grams and over was 62.5. (These babies weigh more than ten pounds.)

A large disparity in the adequacy of prenatal care exists among the counties as geographic differences prevail throughout the state. Of the 36 Oregon counties, seven had inadequate prenatal care rates significantly lower than the state average (Baker, Benton, Clackamas, Crook, Union,

3. National Center for Health Statistics: Advanced report of final natality statistics, 1988. *Monthly Vital Statistics Report*, Vol. 39, No. 4, supp. Public Service, Hyattsville, Maryland, 1990.

Figure 2-2.



Ratios are per 1,000 births.

The rate of unwed mothers grew 81 percent faster in Oregon than in the U.S. in the last decade.

Washington, and Yamhill), while three counties had rates significantly higher than the state rate (Coos, Malheur, and Multnomah). Baker County had the lowest rate of inadequate care (21.6). Malheur had the highest statistically significant rate of inadequate care (142.5).

MARITAL STATUS OF MOTHER. The increase in the number and rate of births to unwed mothers continues. In 1989, there were 10,437 live births to unwed mothers. Of every hundred births in 1989, 25 were to mothers who were not married. This is a 7.6 percent increase in the rate from 1988. In 1940, only one percent of births were to unwed mothers. This last natality year was the first time that more than one of every four infants was born to an unwed mother. Nationally, this represented over one million babies.

The unwed mothers ratio is the number of births to unwed mothers divided by the total number of births and multiplied by 1,000. The Oregon birth ratio of unwed mothers in 1989 (253.2) was 15.2 percent lower than the 1988 U.S. rate of 257.1. Oregon's ratio of births to unwed mothers has always been lower than the U.S. rate, however from 1980 to 1988, the U.S. rate has increased by 39.5 percent while the Oregon birth rate for unwed mothers increased 71.5 percent in the same time period (Figure 2-2).

Marital status is linked to birth outcome even after adjusting for mother's age and race. Unwed mothers are more likely to give birth to low weight infants; their low birthweight rate is 79.2 compared to 43.0 for married mothers. Unwed mothers are more likely to be nonwhite, young, and have a lower educational status.

The rate of inadequate prenatal care for unwed mothers was 154.4, three times higher than the 49.1 rate for married mothers. Among those women who received adequate prenatal care, unmarried mothers were

nearly twice (1.98:1) as likely to give birth to a low weight baby than those who were married (64.7 vs. 32.7 per 1,000 births).

There were also differences between ethnic/racial groups in terms of frequency of births to unmarried mothers. Over two-thirds of African American mothers were unwed. A majority of Indian mothers were also unwed (54.7 percent for non-Hispanics and 49.0 percent for Hispanic women). Japanese and Chinese women had a significantly lower ratio of births to unwed mothers than the state ratio.

Unwed mothers tended to be younger than married mothers. In 1989, 31.1 percent of unwed mothers were under 20 years of age, while only 5.4 percent of married mothers were in this age range. Marital status differences existed among counties. Ten of Oregon's counties had unwed mother ratios significantly less than the state ratio, while six counties had ratios significantly higher than the state ratio (Table 2-7).

SIZE OF FAMILIES. In 1940, 31.7 percent of women gave birth to their third or more child. In 1960, this figure had increased to 52.5 percent. It hit the lowest point in 1980 (23.2 percent) when it again resumed its upward trend. By 1989, 28.4 percent of mothers were delivering *at least* their third child (Table 2-8). This represents a 22.4 percent increase in the last decade.

AGE OF MOTHER. Nearly 58 percent of the infants who were born in 1988 had mothers who were 20-29 years of age. However, just ten years ago 68 percent of all infants were born to mothers in this age group. Older mothers are taking on an ever-increasing percentage of total Oregon births as the children of the baby boom move through their childbearing years.

Age specific fertility rates show the changes over time (Table 2-1). Women 20-29 years of age had increasing fertility rates from 1950 to 1960 when rates began to decrease. The trend has been stable for the last ten years with only minor fluctuations. Older mothers (30+ years) had decreasing birth rates from 1950 until 1975. Then they began having more babies. The higher age specific birth rates in this group during the early 50s were due to women delivering their third or fourth child. The median age of mothers has been increasing since 1972. In 1977 only 6 percent of mothers having their first baby were 30 or older, compared to 17.9 percent in 1982 and 18.6 percent in 1989. Most of our historical data does not allow us to track the factor of delayed childbearing prior to 1971.

On another note, the birth rate is on the increase among teenage women. This rate has been increasing on the average 4 percent for the last four years, for a total of 17.7 percent. The drop in the teen birth rate which began in 1980 had been promising. It reversed in 1987. However, in 1989, the teen birth rate (49.8) was only 2.2 percent below the 1980 peak rate of the decade (50.9).

OUT-OF-HOSPITAL BIRTHS. Beginning in 1969, Oregon mothers were more apt to give birth in a non-hospital setting than were their counterparts nationally (Figure 2-3). The peak years for the number of non-hospital births were 1982 and 1983, with 2,069 and 2,060 births respectively. In 1989, there were 1,117 out-of-hospital births (26.2 per 1,000 live births). The out-of-

Median Mother's Age at Childbirth

1940	25.7
1950	25.7
1960	24.7
1970	N/A
1971	24.0
1972	23.1
1973	23.2
1974	23.3
1975	23.5
1976	23.5
1977	23.7
1978	24.0
1979	24.2
1980	24.3
1981	24.5
1982	24.8
1983	25.0
1984	25.3
1985	25.4
1986	25.5
1987	25.6
1988	25.7
1989	25.7

Teen birth rate rises 17.7 percent in last four years

Figure 2-3.

hospital rate is down 10.9 percent from 1988 and only about one-half as high as the peak rate of 50.2 in 1983. However, it is still above the U.S. rate.

In 1989, only 24 infants born out-of-hospital to Oregon residents had low birthweights (2.2 percent of all non-hospital Oregon resident births), while 5.3 percent of the infants born in-hospital had low birthweights. This difference may reflect the screening process used by providers in out-of-hospital birth settings. Typically, the mothers delivering in non-traditional settings are not high risk patients. These providers may also be transporting or transferring mothers in premature labor or patients who develop complications of pregnancy to inpatient facilities for delivery, because they do not have the facility or equipment to deal with problem births.

For whites, 2.7 percent of births were out-of-hospital. The racial group that had the highest rate of out-of-hospital births was the Japanese (3.9 percent). African Americans had the second lowest rate (1.9 percent). The racial category "other nonwhite" had the lowest rate (1.4 percent).

DRUG AFFECTED INFANTS. New data collection procedures from the birth certificate allow us to gather more information about infants affected by maternal use of drugs. There are specific questions pertaining to alcohol and tobacco use on the birth certificate. There is also a question in this section on "other" factors for this pregnancy. It is in this open-ended question that birth attendants and postpartum care providers often list types of drugs used by the mother. Prescription and over-the-counter drugs were used by 550 mothers (1.3 percent). Street drugs or controlled drugs were used by 746 mothers or 1.8 percent of the total mothers giving birth. Nearly one-fifth (18.6 percent) of mothers listed as using controlled drugs had multiple controlled drugs mentioned on the birth certificate. Nearly one-third (32.6 percent) of the single-mentioned drug abuse cases stated no specific drug used, merely "drug abuse." Marijuana was listed for 149

mothers, only narrowly exceeding cocaine. Cocaine was mentioned most often for mothers who had used multiple drugs.[4]

FINANCIAL SOURCE OF PAYMENT. Questions were asked about source of payment for the delivery. Four categories were given as options: insurance, self pay, public assistance, and "other." The specific type of insurance coverage or public assistance grant was not defined. The majority of deliveries in Oregon are paid by insurance companies, approximately 60 percent. Slightly over one-fourth (27.0 percent) of Oregon deliveries are paid for by some sort of public assistance (county health departments, Oregon Medical Assistance Program). Those who used multiple sources of payment numbered 461 or 1.1 percent. Nearly two-thirds of the single mothers received public assistance. Only one-third of the married mothers used public assistance for their deliveries (Table 2-18).

Low birthweight rates are highest for mothers on public assistance (72.0). Low birthweight rates are lowest for those who have insurance coverage (41.9). Inadequate prenatal care rates are highest for those with "other" sources of coverage for their deliveries. The self-pay category for unwed mothers had the highest rate of inadequate care of all (235.5). This is fully three times the total state rate.

4. Drugs reported are seen as a minimum count since national and clinical studies show an 11 percent incidence of drug use. *Task Force on Alcohol and Drug Abuse Among Pregnant Women and Mothers With Young Children.* State of Oregon. February 1990

Figure 2-4.

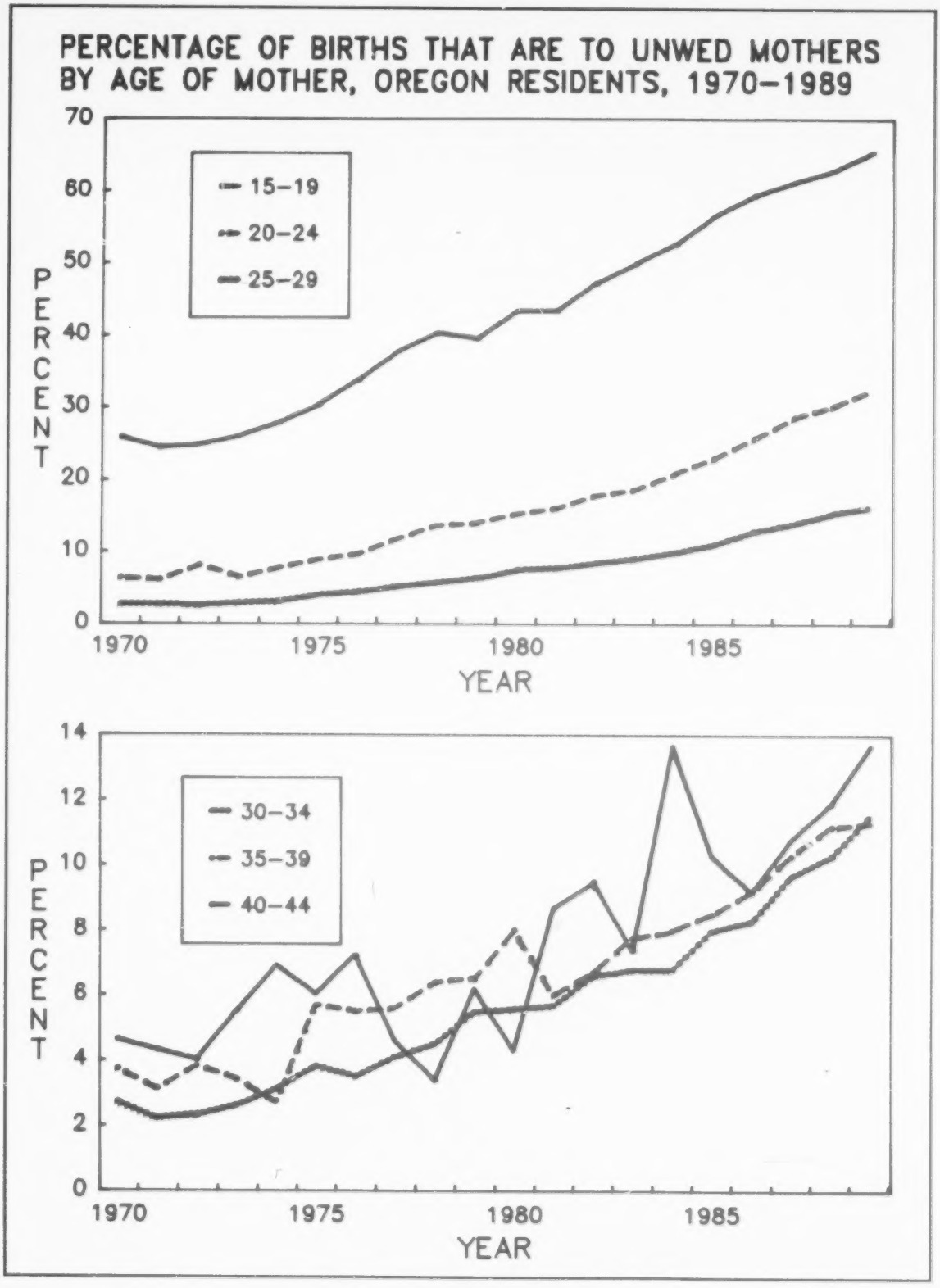

PERCENTAGE OF BIRTHS THAT ARE TO UNWED MOTHERS
BY AGE OF MOTHER, OREGON RESIDENTS, 1970–1989
15–19
20–24
25–29
PERCENT
YEAR
30–34
35–39
40–44
PERCENT
YEAR

TABLE 2-1. AGE-SPECIFIC BIRTH RATES, FERTILITY RATES, AND TOTAL FERTILITY RATES, OREGON, 1940, 1950-1989

YEAR	AGE-SPECIFIC BIRTH RATES						FERTILITY RATE	TOTAL FERTILITY RATE
	15-19	20-24	25-29	30-34	35-39	40-44	15-44	
1940	46.2	132.8	114.1	68.0	31.7	9.0	69.4	2,009.0
1950	92.9	223.0	169.5	100.9	46.7	12.6	108.8	3,228.3
1951	92.4	229.1	171.5	100.5	46.7	12.7	109.1	3,264.2
1952	91.9	235.2	173.5	100.0	46.7	12.8	109.5	3,300.2
1953	91.5	241.2	175.4	99.5	46.6	13.0	109.9	3,336.1
1954	91.0	247.3	177.4	99.1	46.6	13.1	110.3	3,372.1
1955	90.5	253.4	179.4	98.6	46.5	13.2	110.6	3,408.0
1956	90.1	259.5	181.4	98.1	46.5	13.3	111.0	3,444.0
1957	89.6	265.6	183.4	97.7	46.4	13.4	111.4	3,479.9
1958	89.1	271.6	185.4	97.2	46.4	13.5	111.8	3,515.9
1959	88.7	277.7	187.4	96.7	46.3	13.6	112.1	3,551.8
1960	88.2	283.8	189.3	96.3	46.3	13.7	112.5	3,587.8
1961	85.3	272.2	184.3	92.5	43.8	12.9	109.4	3,454.6
1962	82.3	260.5	179.4	88.7	41.3	12.0	106.3	3,321.4
1963	79.4	248.9	174.4	84.9	38.9	11.2	103.2	3,188.2
1964	76.5	237.3	169.4	81.1	36.4	10.4	100.1	3,054.9
1965	73.5	225.6	164.4	77.3	34.0	9.5	97.0	2,921.7
1966	70.6	214.0	159.4	73.5	31.5	8.7	93.9	2,788.5
1967	67.7	202.4	154.4	69.7	29.1	7.9	90.8	2,655.3
1968	64.7	190.8	149.4	65.9	26.6	7.0	87.7	2,522.1
1969	61.8	179.1	144.4	62.1	24.1	6.2	84.6	2,388.9
1970	58.9	167.5	139.4	58.3	21.7	5.4	81.5	2,255.6
1971	56.5	156.5	133.8	56.1	20.2	4.9	78.1	2,139.9
1972	54.2	145.5	128.3	53.8	18.8	4.4	74.7	2,024.2
1973	51.9	134.4	122.7	51.5	17.3	3.9	71.3	1,908.5
1974	49.5	123.4	117.1	49.3	15.9	3.4	67.9	1,792.7
1975	47.2	112.4	111.6	47.0	14.4	2.8	64.5	1,677.0
1976	48.6	114.0	118.5	52.5	15.2	3.1	67.4	1,759.3
1977	47.4	116.3	114.9	55.0	15.8	2.9	67.7	1,760.8
1978	49.3	115.1	111.3	56.8	16.1	2.8	67.3	1,757.5
1979	48.8	117.1	114.7	61.0	16.9	3.0	69.0	1,808.0
1980	50.9	124.3	112.9	57.8	17.2	2.8	69.3	1,829.5
1981	51.5	121.3	112.8	59.3	16.6	3.0	68.1	1,822.5
1982	45.7	119.1	109.1	60.3	18.6	3.3	65.2	1,780.6
1983	42.8	114.0	110.8	64.7	19.7	3.3	64.1	1,776.6
1984	42.5	108.0	111.0	66.4	21.2	3.1	62.8	1,761.6
1985	42.8	111.2	110.8	65.6	21.2	3.4	62.2	1,775.2
1986	42.3	105.5	112.7	69.5	22.9	3.9	61.8	1,784.0
1987	46.4	109.1	109.1	66.3	24.4	4.0	60.9	1,796.5
1988	46.7	111.1	111.5	69.5	25.7	4.8	61.8	1,846.5
1989	49.8	108.6	113.9	74.9	27.8	5.0	63.3	1,900.0

Rates are per 1,000 female population within the specific age group. Births to mothers under 15 or over 44 are not included. Definitions for fertility rates are in the Technical Notes of this report.

TABLE 2-2. PERCENTAGE OF OREGON RESIDENT BIRTHS THAT ARE TO UNWED MOTHERS, BY AGE OF MOTHER, 1970-1989

YEAR	PERCENT BY AGE GROUP					
	15-19	20-24	25-29	30-34	35-39	40-44
1970	25.7	6.3	2.6	2.7	3.7	4.6
1971	24.4	6.0	2.6	2.2	3.1	4.3
1972	24.8	8.0	2.5	2.3	3.8	4.0
1973	26.0	6.4	2.8	2.6	3.4	5.5
1974	27.9	7.7	3.1	3.1	2.7	6.9
1975	30.3	8.8	4.0	3.8	5.7	6.0
1976	33.8	9.6	4.4	3.5	5.5	7.2
1977	37.8	11.8	5.2	4.1	5.6	4.6
1978	40.3	13.7	5.8	4.5	6.3	3.4
1979	39.5	14.0	6.4	5.5	6.5	6.2
1980	43.4	15.3	7.5	5.6	8.0	4.3
1981	43.4	16.1	7.8	5.7	6.0	8.7
1982	47.3	17.9	8.5	6.6	6.7	9.5
1983	50.0	18.7	9.1	6.8	7.8	7.4
1984	52.7	20.9	10.1	6.8	8.0	13.7
1985	56.6	23.0	11.1	8.0	8.5	10.3
1986	59.5	25.8	13.0	8.3	9.2	9.2
1987	61.3	28.7	14.1	9.7	10.3	10.8
1988	63.0	30.3	15.5	10.3	11.2	11.9
1989	65.6	32.6	16.4	11.6	11.3	13.7

TABLE 2-3. RESIDENT BIRTHS BY AGE GROUP OF MOTHER, OREGON, 1955-1989

YEAR	TOTAL	AGE-GROUP OF MOTHER																	
		Under 15		15-19		20-24		25-29		30-34		35-39		40-44		45 +		N.S.*	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	
1955	38,678	19	0.0	4,939	12.8	12,968	33.5	10,339	26.7	6,346	16.4	3,194	8.3	835	2.2	36	0.1	2	
1956	38,423	21	0.1	5,230	13.6	13,029	33.9	10,035	26.1	6,119	15.9	3,098	8.1	831	2.2	50	0.1	10	
1957	37,828	19	0.1	5,267	13.9	13,162	34.8	9,509	25.1	5,939	15.7	3,051	8.1	832	2.2	47	0.1	2	
1958	36,295	26	0.1	5,147	14.2	12,761	35.2	9,222	25.4	5,519	15.2	2,763	7.6	819	2.3	36	0.1	2	
1959	36,634	21	0.1	5,351	14.6	13,390	36.6	9,052	24.7	5,314	14.5	2,732	7.5	737	2.0	35	0.1	2	
1960	38,347	31	0.1	5,896	15.4	14,122	36.8	9,338	24.4	5,303	13.8	2,808	7.3	799	2.1	48	0.1	2	
1961	37,475	25	0.1	5,738	15.3	14,434	38.5	8,891	23.7	5,012	13.4	2,597	6.9	733	2.0	42	0.1	3	
1962	36,983	19	0.1	5,882	15.9	14,246	38.5	8,743	23.6	4,817	13.0	2,497	6.8	737	2.0	39	0.1	3	
1963	34,863	32	0.1	5,546	15.9	13,616	39.1	8,322	23.9	4,352	12.5	2,266	6.5	694	2.0	35	0.1	-	
1964	33,500	30	0.1	5,356	16.0	13,302	39.7	7,986	23.8	4,088	12.2	2,079	6.2	619	1.8	38	0.1	2	
1965	32,955	29	0.1	5,758	17.5	13,154	39.9	7,640	23.2	3,786	11.5	1,976	6.0	582	1.8	29	0.1	1	
1966	32,446	31	0.1	5,989	18.5	13,044	40.2	7,688	23.7	3,352	10.3	1,781	5.5	521	1.6	38	0.1	2	
1967	31,446	43	0.1	5,646	18.0	13,012	41.4	7,585	24.1	3,185	10.1	1,518	4.8	430	1.4	25	0.1	2	
1968	32,136	39	0.1	5,789	18.0	13,071	40.7	8,304	25.8	3,170	9.9	1,332	4.1	405	1.3	25	0.1	1	
1969	33,834	49	0.1	5,771	17.1	13,779	40.7	9,221	27.3	3,365	9.9	1,241	3.7	372	1.1	32	0.1	4	
1970	35,353	41	0.1	6,027	17.0	14,587	41.3	9,778	27.7	3,373	9.5	1,195	3.4	324	0.9	27	0.1	1	
1971	33,344	51	0.2	5,591	16.8	13,958	41.9	9,218	27.6	3,222	9.7	1,019	3.1	257	0.8	19	0.1	9	
1972	31,308	52	0.2	5,531	17.7	12,374	39.5	9,141	29.2	3,046	9.7	920	2.9	226	0.7	12	0.0	6	
1973	30,902	66	0.2	5,349	17.3	11,936	38.6	9,332	30.2	3,145	10.2	848	2.7	201	0.7	20	0.1	5	
1974	32,506	66	0.2	5,356	16.5	12,612	38.8	10,039	30.9	3,465	10.7	810	2.5	145	0.4	8	0.0	5	
1975	33,352	57	0.2	5,206	15.6	12,716	38.1	10,718	32.1	3,576	10.7	888	2.7	167	0.5	9	0.0	5	
1976	34,840	67	0.2	5,367	15.4	12,895	37.0	11,386	23.7	3,992	11.5	935	2.7	180	0.5	11	0.0	7	
1977	37,467	69	0.2	5,303	14.2	13,830	36.9	12,285	32.8	4,723	12.6	1,069	2.9	174	0.5	9	0.0	5	
1978	38,964	72	0.2	5,588	14.3	13,906	35.7	12,710	32.6	5,319	13.7	1,181	3.0	178	0.5	7	0.0	3	
1979	41,564	70	0.2	5,544	13.3	14,451	34.8	13,864	33.4	6,109	14.7	1,316	3.2	193	0.5	12	0.0	5	
1980	43,091	71	0.2	5,658	13.1	14,912	34.6	14,297	33.2	6,499	15.1	1,456	3.4	185	0.4	11	0.0	2	
1981	42,974	61	0.1	5,483	12.8	14,338	33.4	14,292	33.3	7,102	16.5	1,479	3.4	207	0.5	12	0.0	-	
1982	41,012	52	0.1	4,783	11.7	13,422	32.7	13,534	33.0	7,202	17.6	1,765	4.3	241	0.6	13	0.0	-	
1983	39,949	52	0.1	4,375	11.0	12,595	32.8	13,106	32.8	7,626	19.1	1,938	4.9	244	0.6	11	0.0	2	
1984	39,536	56	0.1	4,245	10.7	12,035	30.4	12,783	32.3	7,961	20.1	2,193	5.5	248	0.6	13	0.0	2	
1985	39,419	42	0.1	4,136	10.5	11,815	30.0	12,782	32.4	8,017	20.3	2,333	5.9	281	0.7	10	0.0	3	
1986	38,850	64	0.2	4,159	10.7	11,334	29.2	12,308	31.7	8,067	20.8	2,574	6.6	327	0.8	13	0.0	4	
1987	38,674	59	0.2	4,363	11.3	10,791	27.9	12,209	31.6	8,038	20.8	2,829	7.3	370	1.0	13	0.0	2	
1988	39,850	57	0.1	4,496	11.3	10,874	27.3	12,477	31.3	8,436	21.2	3,055	7.7	469	1.2	11	0.0	2	
1989	41,223	68	0.2	4,850	11.8	11,305	27.4	12,559	30.5	8,549	20.7	3,349	8.1	517	1.3	16	0.0	10	

* N.S. indicates age not stated; the percentage is insignificant.

TABLE 2-4. RESIDENT BIRTHS BY RACE OF CHILD, OREGON, 1955-1989

YEAR	TOTAL	RACE OF CHILD						
		White*	African American	Indian	Chinese	Japanese	Other	Not Stated
1955	38,678	37,575	526	309	74	135	59	-
1956	38,423	37,346	548	267	71	129	62	-
1957	37,828	36,705	530	340	80	121	52	-
1958	36,295	35,138	538	340	65	128	85	1
1959	36,634	35,384	599	376	69	128	78	-
1960	38,347	36,958	651	432	78	134	94	-
1961	37,475	36,128	585	451	72	148	91	-
1962	36,983	35,717	613	385	68	115	85	-
1963	34,863	33,545	617	418	72	105	106	-
1964	33,500	32,199	613	417	69	105	97	-
1965	32,955	31,671	590	425	66	112	91	-
1966	32,446	31,247	567	371	77	82	102	-
1967	31,446	30,270	583	368	63	74	88	-
1968	32,136	30,968	543	363	71	85	106	-
1969	33,834	32,427	626	451	95	95	139	1
1970	35,353	33,729	677	552	86	127	179	3
1971	33,344	31,850	654	478	90	106	158	8
1972	31,308	29,756	657	492	89	110	185	19
1973	30,902	29,349	621	510	77	113	214	18
1974	32,506	30,800	706	515	80	109	272	24
1975	33,352	31,487	760	567	97	117	290	34
1976	34,840	32,923	728	550	104	138	339	58
1977	37,467	35,361	894	527	109	134	369	73
1978	38,964	36,617	947	581	107	144	546	22
1979	41,564	38,983	977	627	147	151	661	18
1980	43,091	40,151	1,012	687	169	147	908	17
1981	42,974	39,863	920	660	154	163	1,211	3
1982	41,012	37,951	976	643	176	185	1,077	4
1983	39,949	37,065	982	688	171	169	871	3
1984	39,536	36,683	907	689	178	158	916	5
1985	39,419	36,509	981	674	165	190	892	8
1986	38,850	35,866	955	722	193	179	924	11
1987	38,674	35,596	1,013	733	211	181	927	13
1988	39,850	36,548	1,090	786	228	183	1,006	9
1989	41,223	37,395	1,201	994	251	233	1,091	58

* Before 1989, Hispanics were included in the white racial category. In 1989, Hispanics were divided among all racial groups.

TABLE 2-5. RESIDENT BIRTHS BY AGE OF MOTHER AND BIRTHWEIGHT, OREGON, 1989

BIRTH-WEIGHT (IN GRAMS)	TOTAL	AGE OF MOTHER								
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
TOTAL.....	41,223	68	4,850	11,305	12,559	8,549	3,349	517	16	10
499 & LESS.....	49	-	8	10	18	7	6	-	-	-
500-999.....	148	2	27	36	29	36	14	4	-	-
1000-1499.....	170	-	32	43	45	30	16	4	-	-
1500-1999.....	387	1	51	93	103	86	48	4	-	1
2000-2499.....	1,398	5	202	398	387	278	105	21	2	-
2500-2999.....	5,332	12	772	1,622	1,551	929	377	67	1	1
3000-3499.....	14,192	23	1,825	4,034	4,250	2,837	1,051	162	5	5
3500-3999.....	13,525	18	1,422	3,629	4,256	2,942	1,087	165	5	1
4000-4499.....	4,986	7	448	1,197	1,616	1,142	502	72	1	1
4500-4999.....	918	-	57	219	264	232	131	14	1	-
5000 & OVER....	96	-	4	21	34	25	11	1	-	-
UNKNOWN.....	22	-	2	3	6	5	1	3	1	1
COLUMN PERCENT										
TOTAL.....	100.0%	100.0	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0	100%
% 1499 & LESS	.9	2.9	1.4	.8	.7	.9	1.1	1.5	-	-
% 1500-2499..	4.3	8.8	5.2	4.3	3.9	4.3	4.6	4.8	12.5	10.0
% 2500-4499..	92.3	88.2	92.1	92.7	92.9	91.8	90.1	90.1	75.0	80.0
% 4500 & OVER	2.5	-	1.3	2.1	2.4	3.0	4.2	2.9	6.3	-

- QUANTITY IS ZERO

TABLE 2-6. RESIDENT BIRTHS TO UNWED MOTHERS BY AGE OF MOTHER AND BIRTHWEIGHT, OREGON, 1989

BIRTH-WEIGHT (IN GRAMS)	TOTAL	AGE OF MOTHER								
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
TOTAL.....	10,437	67	3,180	3,686	2,054	994	378	71	2	5
499 & LESS.....	19	-	6	6	5	2	0	-	-	-
500-999.....	63	2	17	20	12	7	5	0	-	-
1000-1499.....	62	-	17	20	13	7	5	0	-	-
1500-1999.....	160	1	38	48	39	23	9	2	-	0
2000-2499.....	523	5	143	166	105	72	28	3	1	-
2500-2999.....	1,700	12	536	581	343	155	57	16	0	0
3000-3499.....	3,799	22	1,174	1,362	725	368	118	27	0	3
3500-3999.....	3,000	18	924	1,122	585	240	96	14	0	1
4000-4499.....	920	7	286	295	187	95	44	6	0	0
4500-4999.....	169	-	36	58	33	22	16	3	1	-
5000 & OVER....	13	-	1	6	5	1	0	0	-	-
UNKNOWN.....	9	-	2	2	2	2	0	0	0	1
COLUMN PERCENT										
TOTAL.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
% 1499 & LESS	1.4	3.0	1.3	1.2	1.5	1.6	2.6	.0	-	-
% 1500-2499..	6.5	9.0	5.7	5.8	7.0	9.6	9.8	7.0	50.0	.0
% 2500-4499..	90.2	88.1	91.8	91.2	89.6	86.3	83.3	88.7	.0	80.0
% 4500 & OVER	1.7	-	1.2	1.7	1.9	2.3	4.2	4.2	50.0	-
% UNKNOWN										20.0

- QUANTITY IS ZERO

TABLE 2-7. BIRTHS TO UNWED MOTHERS BY COUNTY OF RESIDENCE, OREGON 1989

COUNTY OF RESIDENCE	TOTAL BIRTHS	NUMBER UNWED	RATIO UNWED 1/	
TOTAL	41,223	10,437	253.2	
BAKER	185	42	227.0	
BENTON	853	127	148.9	-
CLACKAMAS	3,653	685	187.5	-
CLATSOP	459	128	278.9	
COLUMBIA	534	134	250.9	
COOS	777	223	287.0	
CROOK	226	61	269.9	
CURRY	204	60	294.1	
DESCHUTES	1,027	233	226.9	
DOUGLAS	1,354	366	270.3	
GILLIAM	20	1	50.0	-
GRANT	116	11	94.8	-
HARNEY	112	14	125.0	-
HOOD RIVER	289	55	190.3	-
JACKSON	1,981	526	265.5	
JEFFERSON	278	103	370.5	+
JOSEPHINE	808	255	315.6	+
KLAMATH	784	233	297.2	+
LAKE	107	23	215.0	
LANE	3,930	1,016	258.5	
LINCOLN	507	140	276.1	
LINN	1,350	361	267.4	
MALHEUR	463	135	291.6	
MARION	3,624	1,039	286.7	+
MORROW	121	36	297.5	
MULTNOMAH	9,068	2,733	301.4	+
POLK	651	183	281.1	
SHERMAN	18	4	222.2	
TILLAMOOK	235	55	234.0	
UMATILLA	957	327	341.7	+
UNION	343	61	177.8	-
WALLOWA	77	11	142.9	-
WASCO	266	71	266.9	
WASHINGTON	4,855	745	153.5	-
WHEELER	12	0	.0	-
YAMHILL	979	240	245.1	

1/ RATIO IS NUMBER OF UNWED MOTHERS PER 1,000 LIVE BIRTHS
NOTE: SYMBOL - DENOTES RATIO IS SIGNIFICANTLY LESS THAN STATE RATIO
SYMBOL + DENOTES RATIO IS SIGNIFICANTLY GREATER THAN STATE RATIO

TABLE 2-8. RESIDENT BIRTHS BY AGE OF MOTHER AND LIVE BIRTH ORDER, OREGON, 1989

LIVE BIRTH ORDER	TOTAL	AGE OF MOTHER								
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
TOTAL	41,223	68	4,850	11,305	12,559	8,549	3,349	517	16	10
FIRST	16,153	65	3,753	5,349	4,089	2,130	680	83	-	4
SECOND	13,368	3	916	3,873	4,444	2,982	1,020	127	3	-
THIRD	7,049	-	161	1,522	2,562	1,925	769	104	3	3
FOURTH	2,800	-	15	413	1,001	880	423	68	-	-
FIFTH	1,021	-	1	105	301	363	197	49	5	-
SIXTH	410	-	-	22	107	144	106	29	2	-
SEVENTH	187	-	1	2	24	77	66	17	-	-
EIGHTH	87	-	-	-	9	30	35	13	-	-
NINTH +	148	-	3	19	22	18	53	27	3	3
N.S.	-	-	-	-	-	-	-	-	-	-

- QUANTITY IS ZERO

TABLE 2-9. TOTAL PREGNANCIES BY TYPE OF OUTCOME AND AGE GROUPS, OREGON RESIDENTS 1/, 1989

TYPE OF OUTCOME	TOTAL	AGE OF MOTHER								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
TOTAL	55,381	142	8,373	15,672	15,538	10,303	4,334	744	22	253
LIVE BIRTHS	41,223	68	4,850	11,305	12,559	8,549	3,349	517	16	10
PERCENT	74.5	47.9	57.9	72.2	80.8	83.0	77.3	69.5	72.7	4.0
FETAL DEATHS	230	1	25	53	62	46	32	6	2	3
PERCENT	0.4	0.7	0.3	0.3	0.4	0.4	0.7	0.8	9.1	1.2
INDUCED ABORTIONS	13,928	73	3,498	4,314	2,917	1,708	953	221	4	240
PERCENT	25.1	51.4	41.8	27.5	18.8	16.6	22.0	29.7	18.2	94.8

1/ INDUCED ABORTION DATA ARE AVAILABLE BY OREGON OCCURRENCE ONLY.

TABLE 2-10. BIRTHS BY AGE OF MOTHER AND COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	TOTAL BIRTHS	AGE OF MOTHER								
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45 +	N.S.
TOTAL.....	41,223	68	4,850	11,305	12,559	8,549	3,349	517	16	10
BAKER.....	185	-	31	48	52	42	11	1	-	-
BENTON.....	853	-	54	173	282	237	96	9	2	-
CLACKAMAS..	3,653	-	309	867	1,145	938	326	68	-	-
CLATSOP....	459	-	60	147	134	77	34	6	1	-
COLUMBIA...	534	1	72	167	165	94	32	3	-	-
COOS.....	777	1	126	242	209	141	53	5	-	-
CROOK.....	226	-	37	78	74	30	7	-	-	-
CURRY.....	204	-	32	57	57	38	18	2	-	-
DESCHUTES..	1,027	2	109	293	303	231	75	14	-	-
DOUGLAS....	1,354	5	194	465	375	221	76	18	-	-
GILLIAM....	20	-	1	4	9	5	1	-	-	-
GRANT.....	116	-	13	37	30	28	7	1	-	-
HARNEY.....	112	-	15	32	31	24	10	-	-	-
HOOD RIVER.	289	2	35	89	83	54	23	3	-	-
JACKSON....	1,981	4	259	561	584	397	150	23	2	1
JEFFERSON..	278	1	49	97	68	44	15	4	-	-
JOSEPHINE..	808	2	130	256	224	121	65	9	1	-
KLAMATH....	784	1	121	279	210	125	39	8	-	1
LAKE.....	107	-	15	35	35	16	5	-	1	-
LANE.....	3,930	5	448	1,064	1,182	809	357	63	2	-
LINCOLN....	507	1	65	144	147	104	43	3	-	-
LINN.....	1,350	3	214	450	406	179	87	11	-	-
MALHEUR....	463	-	78	137	123	83	36	5	-	1
MARION.....	3,624	7	549	1,079	1,084	621	248	35	1	-
MORROW.....	121	-	16	36	32	28	6	1	-	2
MULTNOMAH..	9,068	21	976	2,330	2,776	1,987	830	141	5	2
POLK.....	651	1	95	173	196	124	57	5	-	-
SHERMAN....	18	-	3	5	4	3	3	-	-	-
TILLAMOOK..	235	-	24	75	73	43	17	3	-	-
UMATILLA...	957	3	160	322	262	147	54	7	-	2
UNION.....	343	1	52	93	101	70	24	2	-	-
WALLOWA....	77	-	10	18	28	14	7	-	-	-
WASCO.....	266	1	38	82	82	41	20	2	-	-
WASHINGTON.	4,855	4	342	1,078	1,675	1,240	462	52	1	1
WHEELER....	12	-	1	1	6	4	-	-	-	-
YAMHILL....	979	2	117	291	312	189	55	13	-	-

- QUANTITY IS ZERO

TABLE 2-11. RESIDENT BIRTHS TO UNWED MOTHERS BY AGE OF MOTHER AND COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	TOTAL UNWED BIRTHS	AGE OF MOTHER							
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45 +
TOTAL.....	10,437	67	3,180	3,686	2,054	994	378	71	2
BAKER.....	42	-	13	14	8	5	2	-	-
BENTON.....	127	-	42	40	27	12	6	-	-
CLACKAMAS..	685	-	207	239	131	77	26	5	-
CLATSOP....	128	-	34	42	31	17	4	-	-
COLUMBIA...	134	1	43	53	24	10	3	-	-
COOS.....	223	1	85	69	40	23	5	-	-
CROOK.....	61	-	19	27	11	3	1	-	-
CURRY.....	60	-	20	16	13	8	3	-	-
DESCHUTES..	233	2	62	83	53	24	7	2	-
DOUGLAS....	366	5	118	124	66	38	9	6	-
GILLIAM....	1	-	-	1	-	-	-	-	-
GRANT.....	11	-	5	4	1	1	-	-	-
HARNEY.....	14	-	6	5	1	1	1	-	-
HOOD RIVER.	55	2	16	21	7	6	3	-	-
JACKSON....	526	4	162	183	106	49	17	5	-
JEFFERSON..	103	1	31	39	15	13	3	1	-
JOSEPHINE..	255	2	67	99	55	24	7	1	-
KLAMATH....	233	1	82	93	36	14	5	1	-
LAKE.....	23	-	8	6	7	2	-	-	-
LANE.....	1,016	5	307	357	184	107	49	7	-
LINCOLN....	140	1	46	39	22	22	9	1	-
LINN.....	361	3	125	142	60	21	9	1	-
MALHEUR....	135	-	43	55	23	9	5	-	-
MARION.....	1,039	7	369	341	211	73	28	10	-
MORROW.....	36	-	12	10	5	7	-	-	-
MULTNOMAH..	2,733	21	731	974	592	285	103	24	2
POLK.....	183	1	56	63	30	18	14	1	-
SHERMAN....	4	-	2	1	1	-	-	-	-
TILLAMOOK..	55	-	18	20	7	6	4	-	-
UMATILLA...	327	3	101	122	59	27	13	1	-
UNION.....	61	-	24	16	7	9	5	-	-
WALLOWA....	11	-	3	3	4	-	1	-	-
WASCO.....	71	1	26	22	13	6	3	-	-
WASHINGTON.	745	4	213	279	156	62	26	5	-
WHEELER....	-	-	-	-	-	-	-	-	-
YAMHILL....	240	2	84	84	48	15	7	-	-

- QUANTITY IS ZERO

TABLE 2-12. RESIDENT BIRTHS BY HISPANIC ORIGIN, RACE OF CHILD AND COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	TOTAL BIRTHS	HISPANIC			NON-HISPANIC			
		WHITE	INDIAN	OTHER RACES	WHITE	AFRICAN AMERICAN	INDIAN	OTHER
TOTAL	41,223	2,804	140	183	34,574	1,162	854	1,506
BAKER	185	10	-	-	169	1	5	-
BENTON	853	28	1	-	745	7	3	69
CLACKAMAS	3,653	148	7	8	3,326	40	30	94
CLATSOP	459	12	-	-	425	1	10	11
COLUMBIA	534	12	-	-	502	-	11	9
COOS	777	20	3	-	710	6	23	15
CROOK	226	21	-	-	196	-	8	1
CURRY	204	8	-	-	187	1	1	7
DESCHUTES	1,027	30	2	2	968	3	14	8
DOUGLAS	1,354	51	5	4	1,257	3	23	11
GILLIAM	20	-	-	-	19	-	-	1
GRANT	116	2	-	1	109	-	2	2
HARNEY	112	5	1	-	101	-	4	1
HOOD RIVER	289	93	1	6	177	2	2	8
JACKSON	1,981	135	5	4	1,754	6	48	29
JEFFERSON	278	42	15	2	119	2	95	3
JOSEPHINE	808	31	3	1	735	7	23	8
KLAMATH	784	77	7	5	611	9	64	11
LAKE	107	6	1	-	93	1	3	3
LANE	3,930	123	15	10	3,530	69	79	104
LINCOLN	507	13	-	1	470	-	17	6
LINN	1,350	39	3	3	1,264	8	20	13
MALHEUR	463	182	8	5	259	3	3	3
MARION	3,624	563	16	25	2,796	43	76	105
MORROW	121	30	-	1	88	1	1	-
MULTNOMAH	9,068	371	24	52	6,966	872	157	626
POLK	651	71	1	-	541	7	19	12
SHERMAN	18	1	-	-	16	-	1	-
TILLAMOOK	235	8	-	-	223	2	1	1
UMATILLA	957	171	9	6	701	9	43	18
UNION	343	13	-	3	318	1	5	3
WALLOWA	77	-	-	-	76	-	1	-
WASCO	266	27	1	-	219	1	12	6
WASHINGTON	4,855	346	11	30	4,085	52	32	299
WHEELER	12	1	-	-	10	-	-	1
YAMHILL	979	114	1	14	809	5	18	18

- QUANTITY IS ZERO

TABLE 2-13 BIRTHS BY COUNTY OF OCCURRENCE BY TYPE OF INSTITUTION BY DELIVERY ATTENDANT, OREGON, 1989

COUNTY OF OCCURRENCE	TOTAL	BORN IN HOSPITAL OR ON ARRIVAL							
		TOTAL	M.D.	D.O.	N.D.	CNM	R.N.	OTHER LICENSED MEDICAL	NON-MEDICAL
TOTAL	42,710	41,593	37,590	1,196	3	2,706	71	12	14
BAKER	163	161	161	-	-	-	-	-	-
BENTON	1,098	1,062	979	72	-	-	11	-	-
CLACKAMAS	3,135	3,018	2,552	66	1	397	1	-	1
CLATSOP	498	489	488	-	-	-	1	-	-
COLUMBIA	108	95	95	-	-	-	-	-	-
COOS	753	735	683	1	-	49	2	-	-
CROOK	111	105	105	-	-	-	-	-	-
CURRY	132	97	29	27	-	39	2	-	-
DESCHUTES	1,306	1,266	1,233	30	1	1	-	1	-
DOUGLAS	1,293	1,275	943	128	-	202	2	-	-
GILLIAM	-	-	-	-	-	-	-	-	-
GRANT	105	96	95	-	-	-	1	-	-
HARNEY	40	40	39	-	-	-	-	1	-
HOOD RIVER	275	272	254	18	-	-	-	-	-
JACKSON	2,118	2,061	1,552	88	-	418	3	-	-
JEFFERSON	210	203	203	-	-	-	-	-	-
JOSEPHINE	791	743	739	-	-	-	3	-	1
KLAMATH	834	828	647	12	1	166	-	1	1
LAKE	95	94	93	-	-	-	1	-	-
LANE	4,129	3,911	3,065	25	-	805	11	4	1
LINCOLN	353	346	344	2	-	-	-	-	-
LINN	1,052	1,017	917	-	-	100	-	-	-
MALHEUR	563	557	554	1	-	-	2	-	-
MARION	3,850	3,766	3,728	38	-	-	-	-	-
MORROW	2	-	-	-	-	-	-	-	-
MULTNOMAH	13,189	12,982	12,312	229	-	430	2	4	5
POLK	139	129	20	109	-	-	-	-	-
SHERMAN	-	-	-	-	-	-	-	-	-
TILLAMOOK	144	144	143	-	-	-	1	-	-
UMATILLA	834	810	805	1	-	-	3	-	1
UNION	375	365	362	-	-	-	2	-	1
WALLOWA	48	47	47	-	-	-	-	-	-
WASCO	292	290	147	141	-	-	2	-	-
WASHINGTON	3,839	3,768	3,536	208	-	-	19	1	3
WHEELER	-	-	-	-	-	-	-	-	-
YAMHILL	836	821	720	-	-	99	2	-	-

SEE TECHNICAL NOTES FOR ABBREVIATIONS OF DELIVERY ATTENDANTS

TABLE 2-13. BIRTHS BY COUNTY OF OCCURRENCE BY TYPE OF INSTITUTION BY DELIVERY ATTENDANT, OREGON, 1989

COUNTY OF OCCURRENCE	NOT BORN IN HOSPITAL									
	TOTAL	M.D.	D.O.	N.D.	D.C.	CNM	R.N.	MID-WIFE	OTHER LICENSED MEDICAL	NON-MEDICAL
TOTAL	1,117	41	2	153	12	244	18	489	14	144
BAKER	2	-	-	-	-	1	-	1	-	-
BENTON	36	-	-	-	-	-	2	32	-	2
CLACKAMAS	117	2	-	11	3	45	-	25	1	30
CLATSOP	9	-	-	2	-	-	-	7	-	-
COLUMBIA	13	-	-	-	-	2	-	9	1	1
COOS	18	-	-	2	-	-	-	14	-	2
CROOK	6	-	-	4	-	-	-	1	-	1
CURRY	35	1	1	-	-	28	-	3	-	2
DESCHUTES	40	1	-	28	-	-	-	4	-	7
DOUGLAS	18	-	-	-	-	-	-	9	1	8
GILLIAM	-	-	-	-	-	-	-	-	-	-
GRANT	9	-	-	-	1	-	-	7	-	1
HARNEY	-	-	-	-	-	-	-	-	-	-
HOOD RIVER	3	-	-	3	-	-	-	-	-	-
JACKSON	57	1	-	14	-	-	-	33	-	9
JEFFERSON	7	-	-	1	-	-	-	4	-	2
JOSEPHINE	48	7	-	5	-	-	-	31	-	5
KLAMATH	6	2	1	-	-	-	-	1	-	2
LAKE	1	-	-	-	-	-	-	-	-	1
LANE	218	19	-	-	-	129	15	45	2	8
LINCOLN	7	-	-	1	-	-	-	4	1	1
LINN	35	-	-	-	-	-	-	31	-	4
MALHEUR	6	-	-	-	-	-	-	3	-	3
MARION	84	2	-	2	1	10	1	37	2	29
MORROW	2	-	-	-	-	-	-	2	-	-
MULTNOMAH	207	5	-	67	5	15	-	93	5	17
POLK	10	-	-	-	-	5	-	5	-	-
SHERMAN	-	-	-	-	-	-	-	-	-	-
TILLAMOOK	-	-	-	-	-	-	-	-	-	-
UMATILLA	24	-	-	-	-	-	-	20	-	4
UNION	10	-	-	-	1	4	-	3	-	2
WALLOWA	1	-	-	-	-	1	-	-	-	-
WASCO	2	-	-	1	-	-	-	-	-	1
WASHINGTON	71	1	-	12	1	3	-	51	1	2
WHEELER	-	-	-	-	-	-	-	-	-	-
YAMHILL	15	-	-	-	-	1	-	14	-	-

SEE TECHNICAL NOTES FOR ABBREVIATIONS OF DELIVERY ATTENDANTS

TABLE 2-14 LOW BIRTHWEIGHT INFANTS BY COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	TOTAL	LOW BIRTHWEIGHT INFANTS			RATE FOR ALL LOW BIRTH-WEIGHT 1/	RATE FOR 1499 GRAMS OR LESS	RATE FOR 1500 TO 2499 GRAMS
		TOTAL LOW BIRTH-WEIGHT	1499 GR. OR LESS	1500-2499 GRAMS			
TOTAL	41,223	2,150	365	1,785	52.2	8.9	43.3
BAKER	185	13	-	13	70.7	.0	70.7
BENTON	853	34	2	32	40.0	2.4	37.6
CLACKAMAS	3,653	182	32	150	49.9	8.8	41.1
CLATSOP	459	20	1	19	43.7	2.2	41.5
COLUMBIA	534	21	2	19	39.3	3.7	35.6
COOS	777	35	5	30	45.1	6.4	38.7
CROOK	226	23	2	21	101.8 +	8.8	92.9
CURRY	204	11	3	8	53.9	14.7	39.2
DESCHUTES	1,027	51	10	41	49.7	9.7	39.9
DOUGLAS	1,354	55	8	47	40.7	5.9	34.7
GILLIAM	20	-	-	-	.0	.0	.0
GRANT	116	2	1	1	17.2 -	8.6	8.6
HARNEY	112	3	-	3	26.8	.0	26.8
HOOD RIVER	289	11	3	8	38.1	10.4	27.7
JACKSON	1,981	86	16	70	43.4	8.1	35.3
JEFFERSON	278	12	1	11	43.2	3.6	39.6
JOSEPHINE	808	31	4	27	38.4	5.0	33.5
KLAMATH	784	44	13	31	56.1	16.6	39.5
LAKE	107	6	-	6	56.1	.0	56.1
LANE	3,930	190	36	154	48.3	9.2	39.2
LINCOLN	507	31	4	27	61.1	7.9	53.3
LINN	1,350	68	10	58	50.4	7.4	43.0
MALHEUR	463	24	2	22	52.1	4.3	47.7
MARION	3,624	189	34	155	52.2	9.4	42.8
MORROW	121	6	3	3	50.0	25.0	25.0
MULTNOMAH	9,068	590	108	482	65.1 +	11.9	53.2
POLK	651	37	6	31	56.8	9.2	47.6
SHERMAN	18	1	-	1	55.6	.0	55.6
TILLAMOOK	235	18	3	15	76.6	12.8	63.8
UMATILLA	957	45	13	32	47.1	13.6	33.5
UNION	343	19	3	16	55.4	8.7	46.6
WALLOWA	77	1	-	1	13.0 -	.0	13.0
WASCO	266	16	-	16	60.2	.0	60.2
WASHINGTON	4,855	221	34	187	45.5	7.0	38.5
WHEELER	12	1	-	1	83.3	.0	83.3
YAMHILL	979	53	6	47	54.2	6.1	48.1

- QUANTITY IS ZERO

1/ ALL RATES PER 1,000 BIRTHS

NOTE: SYMBOL - DENOTES RATE IS SIGNIFICANTLY LESS THAN STATE RATE
SYMBOL + DENOTES RATE IS SIGNIFICANTLY GREATER THAN STATE RATE

TABLE 2-15. RESIDENT BIRTHS BY RACE OF CHILD AND BIRTHWEIGHT, OREGON, 1989

BIRTH-WEIGHT (IN GRAMS)	TOTAL	TOTAL HISPANIC	HISPANIC			
			WHITE	AFRICAN AMERICAN	INDIAN	OTHER RACES
TOTAL	41,223	3,127	2,804	39	140	144
499 & LESS	49	5	5	-	-	-
500-999	148	14	14	-	-	-
1000-1499	170	11	10	-	1	-
1500-1999	387	27	24	-	-	3
2000-2499	1,398	112	103	2	2	5
2500-2999	5,332	442	395	6	19	22
3000-3499	14,192	1,205	1,084	11	51	59
3500-3999	13,525	945	843	16	49	37
4000-4499	4,986	312	279	4	13	16
4500-4999	918	49	42	-	5	2
5000 & OVER	96	4	4	-	-	-
UNKNOWN	22	1	1	-	-	-

	TOTAL NON-HISPANIC	NON-HISPANIC				
		WHITE	AFRICAN AMERICAN	INDIAN	OTHER ASIAN & PACIFIC ISLANDER	OTHER RACES
TOTAL	38,062	34,574	1,162	854	760	712
499 & LESS	44	38	5	-	1	-
500-999	134	121	7	2	1	3
1000-1499	159	141	7	4	6	1
1500-1999	360	306	22	8	16	8
2000-2499	1,283	1,100	89	27	46	21
2500-2999	4,888	4,261	248	100	153	126
3000-3499	12,976	11,696	415	274	315	276
3500-3999	12,568	11,618	271	291	164	224
4000-4499	4,670	4,376	81	115	54	44
4500-4999	869	816	15	28	3	7
5000 & OVER	92	84	1	5	1	1
UNKNOWN	19	17	1	-	-	1

- QUANTITY IS ZERO

TABLE 2-16. CONGENITAL MALFORMATIONS REPORTED ON BIRTH CERTIFICATES BY COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	TOTAL	NONE APPARENT	ANENCEPHALUS	SPINA BIFIDA / MENINGOCELE	HYDROCEPHALUS	MICROCEPHALUS	OTHER CENTRAL NERVOUS SYSTEM ANOMALIES	HEART MALFORMATIONS	OTHER CIRCULATORY / RESPIRATORY ANOMALIES	RECTAL ATRESIA/STENOSIS	TRACHEO-ESOPHAGEAL FISTULA / ESOPHAGEAL ATRESIA	OMPHALOCELE / GASTROSCHISIS
TOTAL	41,223	40,588	13	6	10	6	4	71	26	6	5	15
BAKER	185	181	-	-	-	-	-	-	-	-	-	-
BENTON	853	839	-	-	-	-	-	2	-	-	-	-
CLACKAMAS	3,653	3,612	2	-	-	1	1	5	2	1	-	1
CLATSOP	459	451	-	-	1	-	-	1	1	-	-	-
COLUMBIA	534	521	-	-	-	-	-	1	-	-	-	-
COOS	777	763	-	-	-	-	-	1	-	-	1	-
CROOK	226	219	1	-	-	-	-	1	-	-	-	-
CURRY	204	203	-	-	-	-	-	-	-	-	-	-
DESCHUTES	1,027	997	-	1	-	-	-	3	2	-	-	-
DOUGLAS	1,354	1,340	-	1	2	-	-	3	1	-	-	-
GILLIAM	20	20	-	-	-	-	-	-	-	-	-	-
GRANT	116	116	-	-	-	-	-	-	-	-	-	-
HARNEY	112	107	-	-	-	-	-	-	-	1	-	-
HOOD RIVER	289	282	-	-	-	-	-	1	-	-	-	-
JACKSON	1,981	1,957	1	-	-	1	-	3	2	1	-	1
JEFFERSON	278	272	-	-	-	-	-	-	-	-	-	1
JOSEPHINE	808	795	-	-	-	-	-	-	1	-	1	-
KLAMATH	784	753	-	-	1	-	-	2	3	-	-	1
LAKE	107	103	-	-	-	-	1	-	-	-	-	-
LANE	3,930	3,885	4	1	1	-	-	6	-	-	-	-
LINCOLN	507	503	-	-	-	-	-	-	-	1	-	-
LINN	1,350	1,333	-	-	1	1	-	2	-	-	1	-
MALHEUR	463	451	-	-	-	-	1	-	-	-	-	1
MARION	3,624	3,549	-	1	-	1	-	12	1	-	-	2
MORROW	121	108	-	-	-	-	-	-	-	-	-	-
MULTNOMAH	9,068	8,986	4	-	2	-	-	11	5	0	1	3
POLK	651	635	-	-	-	1	1	3	1	-	-	-
SHERMAN	18	18	-	-	-	-	-	-	-	-	-	-
TILLAMOOK	235	231	-	-	-	-	-	-	-	1	-	-
UMATILLA	957	913	-	1	1	-	-	3	2	-	-	2
UNION	343	332	1	-	-	-	-	1	-	-	-	-
WALLOWA	77	73	-	-	-	-	-	1	-	-	-	-
WASCO	266	264	-	-	-	-	-	1	-	-	-	1
WASHINGTON	4,855	4,802	-	1	1	1	-	6	3	1	1	2
WHEELER	12	12	-	-	-	-	-	-	-	-	-	-
YAMHILL	979	962	-	-	-	-	-	2	2	-	-	-

TABLE 2-16. CONGENITAL MALFORMATIONS REPORTED ON BIRTH CERTIFICATE BY COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	OTHER GASTROINTESTINAL ANOMALIES	MALFORMED GENITALIA	RENAL AGENESIS	OTHER UROGENITAL ANOMALIES	CLEFT LIP/PALATE	POLYDACTYLY / SYNDACTYLY / ADACDTYLY	CLUB FOOT	DIAPHRAGMATIC HERNIA	MUSCULOSKELETAL / INTEGUMENT ANOMALIES	DOWN SYNDROME	OTHER CHROMOSOMAL ANOMALIES	OTHER
TOTAL.....	22	92	1	29	42	50	28	5	189	25	14	47
BAKER.....	-	1	-	-	-	-	1	-	2	-	-	-
BENTON.....	-	3	-	-	3	-	-	-	3	2	1	-
CLACKAMAS..	-	5	1	2	4	6	1	-	14	2	-	2
CLATSOP....	-	-	-	-	-	1	-	-	2	-	-	2
COLUMBIA...	-	2	-	-	-	1	1	-	4	1	-	3
COOS.....	-	3	-	1	-	-	-	-	6	-	-	3
CROOK.....	-	1	-	-	1	2	2	-	1	-	-	-
CURRY.....	-	-	-	-	-	-	-	-	1	-	-	-
DESCHUTES..	1	8	-	1	-	1	-	-	9	2	2	1
DOUGLAS....	1	2	-	1	-	1	-	-	3	-	-	1
GILLIAM....	-	-	-	-	-	-	-	-	-	-	-	-
GRANT.....	-	-	-	-	-	-	-	-	-	-	-	-
HARNEY.....	-	-	-	1	1	1	1	-	-	-	-	-
HOOD RIVER.	-	-	-	-	-	1	1	-	2	1	-	2
JACKSON....	2	2	-	2	1	1	2	-	3	-	4	2
JEFFERSON..	-	-	-	-	-	2	-	-	2	-	-	1
JOSEPHINE..	-	3	-	-	1	1	1	-	4	1	-	1
KLAMATH....	1	4	-	2	-	2	1	-	13	1	1	3
LAKE.....	-	2	-	-	-	-	-	-	1	-	-	-
LANE.....	1	5	-	2	6	8	2	-	9	3	3	3
LINCOLN....	-	1	-	-	1	-	-	-	1	-	-	-
LINN.....	1	5	-	-	-	-	1	-	6	1	-	-
MALHEUR....	-	-	-	-	-	1	2	1	3	-	-	3
MARION.....	3	14	-	6	5	4	3	1	17	2	-	7
MORROW.....	1	1	-	-	-	-	-	-	11	-	-	1
MULTNOMAH..	3	14	-	5	11	9	2	1	16	3	1	3
POLK.....	-	3	-	-	2	-	-	-	5	1	-	1
SHERMAN....	-	-	-	-	-	-	-	-	-	-	-	-
TILLAMOOK..	-	2	-	-	-	-	-	-	2	-	-	-
UMATILLA...	3	2	-	2	-	-	2	-	29	-	-	2
UNION.....	-	2	-	-	-	1	-	-	5	1	-	1
WALLOWA....	-	-	-	-	-	1	1	-	1	-	-	-
WASCO.....	-	-	-	-	-	1	-	-	-	-	-	-
WASHINGTON.	5	6	-	3	5	5	2	2	9	2	2	4
WHEELER....	-	-	-	-	-	-	-	-	-	-	-	-
YAMHILL....	-	1	-	1	1	-	2	-	5	2	-	1

TABLE 2-17. MATERNAL CHARACTERISTICS BY DRUGS USED AND OTHER TOXINS LISTED, OREGON RESIDENT BIRTHS, 1989

CHARACTERISTICS		NO MENTION	RX O/C1/	OTHER TOXINS 2/	CONTROLLED DRUGS		
					TOTAL	SINGLE MENTION	MULTI-PLE
TOTAL	41,223	39,916	550	11	746	607	139
WED	30,779	30,025	491	9	254	205	49
UNWED	10,437	9,884	59	2	492	402	90
MOTHER'S AGE & MARITAL STATUS							
LESS THAN 18	1,587	1,539	3	-	45	35	10
WED	295	291	-	-	4	3	1
UNWED	1,289	1,245	3	-	41	32	9
18-24	14,636	14,203	90	5	338	271	67
WED	8,991	8,827	61	3	100	82	18
UNWED	5,644	5,375	29	2	238	189	49
25-34	21,108	20,406	367	6	329	273	56
WED	18,060	17,574	346	6	134	107	27
UNWED	3,048	2,832	21	-	195	166	29
35+	3,882	3,758	90	-	34	28	6
WED	3,429	3,329	84	-	16	13	3
UNWED	451	427	6	-	18	15	3
INADEQUATE PRENATAL CARE	3,020	2,796	13	1	210	161	49
WED	1,454	1,396	3	1	54	40	14
UNWED	1,564	1,398	10	0	155	121	35
INADEQ PNC RATE	73.26	70.05	23.64	90.91	281.50	265.24	352.52
WED	47.14	46.39	6.11	111.11	212.60	195.12	285.71
UNWED	148.99	140.53	169.49	-	317.07	301.00	388.89
TOBACCO USED	9,731	9,092	73	2	564	458	106
ALCOHOL USED	3,007	2,715	61	3	228	179	49
BIRTH WEIGHT							
LOW BIRTH WEIGHT	2,152	2,019	22	-	111	90	21
LBW RATE	52.23	50.61	40.00	-	148.79	148.27	151.08

- QUANTITY IS ZERO
1/PRESCRIPTION AND OVER-THE-COUNTER DRUGS.
2/TOXIC EFFECT OF SOLVENTS, ACIDS, FUMES, METALS

TABLE 2-17. MATERNAL CHARACTERISTICS BY DRUGS USED AND OTHER TOXINS LISTED, OREGON RESIDENT BIRTHS, 1989 (CONTINUED)

CHARACTERISTICS	MULTIPLE DRUGS MENTIONED				
	HEROIN	COCAINE	METH-AMPHET-AMINE	MARI-JUANA	OTHER
TOTAL	6	65	58	69	37
WED	2	19	20	27	15
UNWED	4	46	38	42	22
MOTHER'S AGE & MARITAL STATUS					
LESS THAN 18					
TOTAL	-	4	6	7	1
WED	-	-	1	1	-
UNWED	-	4	5	6	1
18-24					
TOTAL	1	30	27	35	19
WED	-	8	8	12	4
UNWED	1	22	19	23	15
25-34					
TOTAL	5	29	22	26	14
WED	2	11	11	14	8
UNWED	3	18	11	12	6
35+					
TOTAL	-	2	3	1	3
WED	-	-	-	-	3
UNWED	-	2	3	1	-
INADEQUATE PRENATAL CARE	1	19	24	24	14
WED	1	4	8	9	3
UNWED	0	15	16	15	11
INADEQ PNC RATE	166.67	292.31	413.79	359.38	357.14
WED	(1)	210.53	400.00	320.00	235.29
UNWED	(1)	326.09	421.05	384.62	440.00
TOBACCO USED	6	50	48	51	26
ALCOHOL USED	2	22	14	19	19
BIRTH WEIGHT					
LOW BIRTH WEIGHT	2	10	7	9	7
LBW RATE	(1)	153.85	120.69	140.63	166.67

-QUANTITY IS ZERO

TABLE 2-17. MATERNAL CHARACTERISTICS BY DRUGS USED AND OTHER TOXINS LISTED, OREGON RESIDENT BIRTHS, 1989 (CONTINUED)

CHARACTERISTICS	SINGLE MENTION DRUG					
	HEROIN	COCAINE	METH-AMPHET-AMINE	MARI-JUANA	DRUG ABUSE	IV DRUG ABUSE
TOTAL	29	136	63	149	198	32
WED	5	39	21	64	65	11
UNWED	24	97	42	85	133	21
MOTHER'S AGE & MARITAL STATUS						
LESS THAN 18	-	11	2	9	12	1
WED	-	1	-	1	1	-
UNWED	-	10	2	8	11	1
18-24	5	57	26	75	95	13
WED	1	15	6	25	30	5
UNWED	4	42	20	50	65	8
25-34	17	64	35	56	86	15
WED	3	20	15	34	31	4
UNWED	14	44	20	22	55	11
35+	7	4	-	9	5	3
WED	1	3	-	4	3	2
UNWED	6	1	-	5	2	1
INADEQUATE PRENATAL CARE	16	40	22	22	53	8
WED	3	8	8	10	10	1
UNWED	13	32	14	12	43	7
INADEQ PNC RATE	551.72	294.12	349.21	147.65	267.68	250.00
WED	600.00	205.13	380.95	156.25	153.85	90.91
UNWED	541.67	329.90	333.33	141.18	323.31	333.33
TOBACCO USED	24	100	53	110	147	24
ALCOHOL USED	8	49	18	38	60	6
BIRTH WEIGHT						
LOW BIRTH WEIGHT	6	29	12	18	23	2
LBW RATE	206.90	213.24	190.48	120.81	116.16	62.50

- QUANTITY IS ZERO

TABLE 2-18. MATERNAL CHARACTERISTICS BY METHOD OF PAYMENT OF DELIVERY, OREGON RESIDENT BIRTHS, 1989

CHARACTERISTICS	TOTAL BIRTHS	FINANCIAL PAYMENT					
		INSURANCE	SELF PAY	PUBLIC ASSISTANCE	OTHER	UNKNOWN	MULTIPLE MENTION
TOTAL	41,223	24,553	3,831	11,112	483	783	461
WED	30,779	22,391	2,765	4,442	253	589	339
UNWED	10,437	2,162	1,066	6,670	230	187	122
MOTHER'S AGE & MARITAL STATUS							
LESS THAN 18	1,584	369	208	931	41	16	19
WED	295	64	58	164	3	4	2
UNWED	1,289	305	150	767	38	12	17
18-24	14,635	6,114	1,567	6,190	247	317	200
WED	8,991	5,129	1,064	2,327	123	215	133
UNWED	5,644	985	503	3,863	124	102	67
25-34	21,108	15,076	1,727	3,568	170	372	195
WED	18,060	14,352	1,368	1,747	110	320	163
UNWED	3,048	724	359	1,821	60	52	32
35+	3,880	2,994	328	421	25	65	47
WED	3,429	2,846	274	203	17	48	41
UNWED	451	148	54	218	8	17	6
INADEQUATE PRENATAL CARE	3,018	634	584	1,572	106	87	35
WED	1,454	447	331	547	53	57	19
UNWED	1,564	187	253	1,025	53	30	16
INADEQ PNC RATE	73.3	25.82	152.44	141.47	219.46	113.67	75.92
WED	47.2	19.96	118.99	122.92	209.49	96.77	56.05
UNWED	149.9	86.49	235.46	153.07	226.09	160.43	114.75
TOBACCO USE							
YES	9,731	3,406	1,024	4,938	133	113	117
NO	31,074	21,021	2,761	6,046	344	560	342
UNKNOWN	418	126	46	128	6	110	2
ALCOHOL USE							
YES	3,007	1,575	266	1,057	47	32	30
NO	37,728	22,830	3,513	9,898	429	631	427
UNKNOWN	488	148	52	157	7	120	4
BIRTH WEIGHT							
LOW BIRTH WEIGHT	2,150	1,029	227	799	26	50	21
LBW RATE	52.2	41.91	59.32	71.95	54.28	64.27	45.55

TABLE 2-19. MATERNAL CHARACTERISTICS AND PLURAL BIRTHS BY COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	LIVE BIRTHS	PERCENTAGE							
		INADEQUATE CARE	UNDER 18 YEARS OF AGE	35 YEARS OR OLDER	4+ LIVE BIRTHS	RACIAL OR ETHNIC MINORITY	LESS THAN 12 YEARS EDUCATION	UNWED	PLURAL BIRTH
TOTAL	41,223	7.3	3.9	9.4	11.1	12.1	20.8	25.3	2.3
BAKER	185	2.2	5.4	6.5	22.7	3.2	23.8	22.7	1.1
BENTON	853	3.4	2.5	12.5	8.8	9.5	10.9	14.9	2.3
CLACKAMAS	3,653	6.1	2.6	10.8	10.0	6.0	14.5	18.8	2.5
CLATSOP	459	6.8	3.3	8.9	8.3	5.2	20.7	27.9	1.5
COLUMBIA	534	6.2	2.8	6.6	12.7	3.7	16.9	25.1	1.9
COOS	777	9.9	4.9	7.5	11.6	4.6	28.4	28.7	1.9
CROOK	226	2.7	5.8	3.1	11.5	9.7	25.2	27.0	6.2
CURRY	204	9.3	5.4	9.8	11.3	5.4	29.9	29.4	2.0
DESCHUTES	1,027	8.0	3.5	8.7	11.1	2.8	18.4	22.7	2.5
DOUGLAS	1,354	5.9	5.5	6.9	12.0	4.2	27.0	27.0	1.5
GILLIAM	20	.0	.0	5.0	.0	5.0	5.0	5.0	.0
GRANT	116	4.3	1.7	6.9	9.5	4.3	13.8	9.5	.0
HARNEY	112	8.0	5.4	8.9	13.4	8.0	17.0	12.5	1.8
HOOD RIVER	289	5.5	4.5	9.0	12.1	36.0	38.8	19.0	2.8
JACKSON	1,981	8.5	3.8	8.8	10.4	7.8	20.7	26.6	1.6
JEFFERSON	278	9.7	7.2	6.8	23.4	53.2	41.4	37.1	2.2
JOSEPHINE	808	8.8	5.0	9.3	12.5	4.3	28.6	31.6	1.6
KLAMATH	784	9.3	5.7	6.0	14.2	15.2	29.2	29.7	1.8
LAKE	107	10.3	5.6	5.6	8.4	7.5	23.4	21.5	.0
LANE	3,930	6.9	3.9	10.7	9.7	6.2	19.1	25.9	2.4
LINCOLN	507	7.1	3.7	9.1	11.4	4.5	21.5	27.6	2.8
LINN	1,350	8.3	5.9	7.3	9.9	4.2	25.9	26.7	1.6
MALHEUR	463	14.3	4.5	8.9	21.4	37.8	35.6	29.2	1.7
MARION	3,624	8.1	5.4	7.8	12.9	18.6	28.3	28.7	1.9
MORROW	121	9.9	4.1	5.8	18.2	22.3	33.1	29.8	5.0
MULTNOMAH	9,068	8.8	3.5	10.8	10.1	18.1	19.3	30.1	2.3
POLK	651	6.6	5.1	9.5	17.1	12.9	26.9	28.1	5.4
SHERMAN	18	22.2	5.6	16.7	16.7	5.6	38.9	22.2	.0
TILLAMOOK	235	6.0	3.4	8.5	14.0	2.1	22.6	23.4	6.0
UMATILLA	957	7.5	6.2	6.4	14.1	20.2	22.9	34.2	2.1
UNION	343	2.3	5.0	7.6	12.0	3.5	15.5	17.8	2.9
WALLOWA	77	9.1	3.9	9.1	18.2	1.3	18.2	14.3	.0
WASCO	266	5.6	4.9	8.3	12.8	14.7	25.6	26.7	.8
WASHINGTON	4,855	5.0	2.0	10.6	9.4	12.3	13.7	15.3	2.6
WHEELER	12	8.3	.0	.0	16.7	8.3	8.3	.0	.0
YAMHILL	979	5.5	3.7	6.9	13.4	12.4	20.8	24.5	2.5

NOTE: RISK FACTORS EXPRESSED AS PERCENTAGE OF MOTHERS FALLING INTO RISK CATEGORY.

TABLE 2-20. RISK COUNT FREQUENCIES (NUMBER OF EVENTS), BY COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	TOTAL BIRTHS	NUMBER OF RISK FACTORS					
		ZERO	ONE	TWO	THREE	FOUR	FIVE
TOTAL	41,223	21,824	12,190	4,983	1,890	320	14
BAKER	185	103	50	24	8	-	-
BENTON	853	553	214	62	21	3	-
CLACKAMAS	3,653	2,180	1,023	322	103	24	1
CLATSOP	459	234	149	57	18	1	-
COLUMBIA	534	296	170	51	13	4	-
COOS	777	372	230	123	39	13	-
CROOK	226	119	61	40	6	-	-
CURRY	204	89	70	27	16	2	-
DESCHUTES	1,027	583	270	124	44	6	-
DOUGLAS	1,354	685	406	169	87	5	2
GILLIAM	20	17	3	-	-	-	-
GRANT	116	84	23	5	4	-	-
HARNEY	112	69	27	13	3	-	-
HOOD RIVER	289	118	118	38	15	-	-
JACKSON	1,981	1,016	625	247	80	12	1
JEFFERSON	278	91	107	52	22	6	-
JOSEPHINE	808	350	281	121	48	8	-
KLAMATH	784	368	247	107	53	9	-
LAKE	107	62	28	9	5	3	-
LANE	3,930	2,069	1,180	484	173	24	-
LINCOLN	507	273	137	63	31	3	-
LINN	1,350	685	390	183	85	7	-
MALHEUR	463	186	142	91	34	9	1
MARION	3,624	1,748	1,075	513	234	53	1
MORROW	121	51	39	23	7	1	-
MULTNOMAH	9,068	4,493	2,841	1,208	439	78	7
POLK	651	309	201	87	44	10	-
SHERMAN	18	6	7	3	2	-	-
TILLAMOOK	235	120	77	26	10	2	-
UMATILLA	957	459	280	157	53	7	1
UNION	343	224	68	36	15	-	-
WALLOWA	77	47	19	9	2	-	-
WASCO	266	135	83	34	12	2	-
WASHINGTON	4,855	3,083	1,253	371	130	18	-
WHEELER	12	10	2	-	-	-	-
YAMHILL	979	537	294	104	34	10	-

THERE WERE NO MOTHERS WHO HAD ALL SEVEN RISK FACTORS: INADEQUATE CARE, AGE, ETHNIC/RACIAL MINORITY, HIGH BIRTH ORDER, LESS THAN HIGH SCHOOL EDUCATION, SINGLE MOTHER, PLURAL BIRTHS

TABLE 2-21. RISK FACTOR FREQUENCIES (PERCENTAGE), BY COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	TOTAL BIRTHS	NUMBER OF RISK FACTORS					
		ZERO	ONE	TWO	THREE	FOUR	FIVE
TOTAL	41,223	52.9	29.6	12.1	4.6	0.8	0.0
BAKER	185	55.7	27.0	13.0	4.3	-	-
BENTON	853	64.8	25.1	7.3	2.5	.4	-
CLACKAMAS	3,653	59.7	28.0	8.8	2.8	.7	.0
CLATSOP	459	51.0	32.5	12.4	3.9	.2	-
COLUMBIA	534	55.4	31.8	9.6	2.4	.7	-
COOS	777	47.9	29.6	15.8	5.0	1.7	-
CROOK	226	52.7	27.0	17.7	2.7	-	-
CURRY	204	43.6	34.3	13.2	7.8	1.0	-
DESCHUTES	1,027	56.8	26.3	12.1	4.3	.6	-
DOUGLAS	1,354	50.6	30.0	12.5	6.4	.4	.1
GILLIAM	20	85.0	15.0	-	-	-	-
GRANT	116	72.4	19.8	4.3	3.4	-	-
HARNEY	112	61.6	24.1	11.6	2.7	-	-
HOOD RIVER	289	40.8	40.8	13.1	5.2	-	-
JACKSON	1,981	51.3	31.5	12.5	4.0	.6	.1
JEFFERSON	278	32.7	38.5	18.7	7.9	2.2	-
JOSEPHINE	808	43.3	34.8	15.0	5.9	1.0	-
KLAMATH	784	46.9	31.5	13.6	6.8	1.1	-
LAKE	107	57.9	26.2	8.4	4.7	2.8	-
LANE	3,930	52.6	30.0	12.3	4.4	.6	-
LINCOLN	507	53.8	27.0	12.4	6.1	.6	-
LINN	1,350	50.7	28.9	13.6	6.3	.5	-
MALHEUR	463	40.2	30.7	19.7	7.3	1.9	.2
MARION	3,624	48.2	29.7	14.2	6.5	1.5	.0
MORROW	121	42.1	32.2	19.0	5.8	.8	-
MULTNOMAH	9,068	49.5	31.3	13.3	4.8	.9	.1
POLK	651	47.5	30.9	13.4	6.8	1.5	-
SHERMAN	18	33.3	38.9	16.7	11.1	-	-
TILLAMOOK	235	51.1	32.8	11.1	4.3	.9	-
UMATILLA	957	48.0	29.3	16.4	5.5	.7	.1
UNION	343	65.3	19.8	10.5	4.4	-	-
WALLOWA	77	61.0	24.7	11.7	2.6	-	-
WASCO	266	50.8	31.2	12.8	4.5	.8	-
WASHINGTON	4,855	63.5	25.8	7.6	2.7	.4	-
WHEELER	12	83.3	16.7	-	-	-	-
YAMHILL	979	54.9	30.0	10.6	3.5	1.0	-

THERE WERE NO MOTHERS WHO HAD ALL SEVEN RISK FACTORS: INADEQUATE CARE, AGE, ETHNIC/RACIAL MINORITY, HIGH BIRTH ORDER, LESS THAN HIGH SCHOOL EDUCATION, SINGLE MOTHER, PLURAL BIRTHS

TABLE 2-22. MATERNAL CHARACTERISTICS BY RACE AND ETHNICITY OF MOTHER, OREGON RESIDENTS, 1989

MOTHER'S ETHNICITY AND RACE	LIVE BIRTHS	PERCENTAGE						
		INADEQUATE CARE	UNDER 18 YEARS OF AGE	35 YEARS OR OLDER	4+ LIVE BIRTHS	LESS THAN 12 YEARS EDUCATION	UNWED	PLURAL BIRTH
TOTAL	41,223	7.3	3.9	9.4	11.1	20.8	25.3	2.3
MOTHER'S ETHNICITY								
NON-HISPANIC	38,990	6.8	3.7	9.6	10.6	18.6	24.9	2.3
WHITE	36,210	6.3	3.5	9.6	10.3	18.0	23.6	2.3
AFRICAN AMERICAN	899	19.8	10.7	5.1	16.7	28.9	69.9	1.6
INDIAN	656	14.3	7.9	5.8	20.0	39.8	54.7	1.4
CHINESE	221	3.2	.0	15.4	5.0	10.4	1.8	1.8
JAPANESE	146	3.4	1.4	24.0	3.4	4.8	11.0	1.4
HAWAIIAN	40	5.0	2.5	5.0	10.0	17.5	35.0	.0
OTHER NON-WHITE	9	11.1	.0	.0	22.2	44.4	.0	.0
FILIPINO	123	4.1	.8	14.6	8.1	9.8	13.0	3.3
OTHER ASIAN & PACIFIC ISLANDER	654	10.6	2.6	9.6	11.9	23.7	19.6	2.1
UNKNOWN	32	12.5	9.4	18.8	12.5	9.4	40.6	.0
HISPANIC	2,233	17.3	7.1	7.0	20.5	59.1	32.3	2.0
WHITE	2,084	17.2	7.3	6.7	20.5	59.6	32.2	2.2
AFRICAN AMERICAN	6	50.0	.0	.0	33.3	50.0	66.7	.0
INDIAN	49	16.3	6.1	10.2	20.4	42.9	49.0	.0
CHINESE	1	.0	.0	.0	.0	.0	.0	.0
JAPANESE	4	.0	.0	.0	.0	25.0	25.0	.0
HAWAIIAN	-	-	-	-	-	-	-	-
OTHER NON-WHITE	44	13.6	2.3	13.6	25.0	52.3	29.5	.0
FILIPINO	6	.0	.0	33.3	.0	.0	.0	.0
OTHER ASIAN & PACIFIC ISLANDER	8	.0	.0	12.5	12.5	50.0	25.0	.0
UNKNOWN	31	35.5	6.5	9.7	22.6	80.6	19.4	.0

NOTE: RISK FACTORS EXPRESSED AS PERCENTAGE OF MOTHERS FALLING INTO RISK CATEGORY.
FACTORS: INADEQUATE CARE, AGE, ETHNIC/RACIAL MINORITY, HIGH BIRTH ORDER, LESS THAN HIGH SCHOOL EDUCATION, SINGLE MOTHER, PLURAL BIRTHS

TABLE 2-23. INADEQUATE PRENATAL CARE BY MOTHER'S AGE, OREGON RESIDENTS, 1989

MOTHER'S AGE	TOTAL BIRTHS	PRENATAL CARE			RATE INADEQUATE 2/
		INADEQUATE 1/	ADEQUATE	NOT STATED	
TOTAL.....	41,223	3,020	38,079	124	73.3
< 15.....	68	25	43	-	367.6
15-19.....	4,850	653	4,182	15	134.6
20-24.....	11,305	1,052	10,212	41	93.1
25-29.....	12,559	719	11,803	37	57.2
30-34.....	8,549	379	8,148	22	44.3
35-39.....	3,349	153	3,191	5	45.7
40-44.....	517	33	482	2	63.8
45 +.....	16	4	11	1	250.0
N.S.....	10	2	7	1	200.0

- QUANTITY IS ZERO

1/ LESS THAN 5 PRENATAL VISITS OR CARE BEGAN IN THE THIRD TRIMESTER

2/ ALL RATES PER 1,000 BIRTHS

TABLE 2-24. INADEQUATE PRENATAL CARE BY RACE OF MOTHER, OREGON RESIDENTS, 1989

MOTHER'S ETHNICITY AND RACE	TOTAL BIRTHS	PRENATAL CARE			RATE INADEQUATE 2/
		INADEQUATE 1/	ADEQUATE	NOT STATED	
TOTAL	41,223	3,020	38,079	124	73.3
MOTHER'S ETHNICITY					
HISPANIC	2,233	386	1,833	14	172.9
WHITE	2,084	358	1,713	13	171.8
AFRICAN AMERICAN	6	3	3	-	500.0
INDIAN	49	8	41	-	163.3
CHINESE	1	-	1	-	.0
JAPANESE	4	-	4	-	.0
HAWAIIAN	-	-	-	-	-
FILIPINO	6	-	6	-	.0
OTHER ASIAN & PACIFIC ISLANDER	8	-	8	-	.0
OTHER NON-WHITE	44	6	37	1	136.4
UNKNOWN	31	11	20	-	354.8
NON-HISPANIC	38,990	2,634	36,246	110	67.6
WHITE	36,210	2,269	33,855	86	62.7
AFRICAN AMERICAN	899	178	712	9	198.0
INDIAN	656	94	561	1	143.3
CHINESE	221	7	214	-	31.7
JAPANESE	146	5	140	1	34.2
HAWAIIAN	40	2	38	-	50.0
FILIPINO	123	5	118	-	40.7
OTHER ASIAN & PACIFIC ISLANDER	654	69	577	8	105.5
OTHER NON-WHITE	9	1	8	-	111.1
UNKNOWN	32	4	23	5	125.0

- QUANTITY IS ZERO
1/ LESS THAN 5 PRENATAL VISITS OR CARE BEGAN IN THE THIRD TRIMESTER
2/ ALL RATES PER 1,000 LIVE BIRTHS

TABLE 2-25. INADEQUATE PRENATAL CARE BY EDUCATION, OREGON RESIDENTS, 1989

MOTHER'S EDUCATION (IN YEARS)	TOTAL BIRTHS	PRENATAL CARE			RATE INADEQUATE 2/
		INADEQUATE 1/	ADEQUATE	NOT STATED	
TOTAL.....	41,223	3,020	38,079	124	73.3
ZERO.....	117	37	77	3	316.2
ONE.....	25	7	18	-	280.0
TWO.....	68	16	52	-	235.3
THREE.....	97	21	76	-	216.5
FOUR.....	96	27	68	1	281.3
FIVE.....	86	17	69	-	197.7
SIX.....	346	80	263	3	231.2
SEVEN.....	173	41	132	-	237.0
EIGHT.....	579	116	461	2	200.3
NINE.....	1,364	235	1,125	4	172.3
TEN.....	2,578	400	2,167	11	155.2
ELEVEN.....	3,027	432	2,581	14	142.7
TWELVE.....	15,693	1,083	14,575	35	69.0
THIRTEEN...	4,061	170	3,882	9	41.9
FOURTEEN...	3,997	129	3,862	6	32.3
FIFTEEN....	1,430	42	1,387	1	29.4
SIXTEEN....	4,240	75	4,161	4	17.7
SEVENTEEN +	2,562	24	2,534	4	9.4
N.S.....	684	68	589	27	99.4

- QUANTITY IS ZERO
1/ LESS THAN 5 PRENATAL VISITS OR CARE BEGAN IN THE THIRD TRIMESTER
2/ ALL RATES PER 1,000 BIRTHS

TABLE 2-26. INADEQUATE PRENATAL CARE BY BIRTHWEIGHT, OREGON RESIDENTS, 1989

BIRTH-WEIGHT	TOTAL BIRTHS	PRENATAL CARE			RATE INADEQUATE 2/
		INADEQUATE 1/	ADEQUATE	NOT STATED	
TOTAL.....	41,223	3,020	38,079	124	73.3
499 & LESS.	49	29	20	-	591.8
500-999....	148	58	85	5	391.9
1000-1499..	170	40	126	4	235.3
1500-1999..	387	69	310	8	178.3
2000-2499..	1,398	184	1,205	9	131.6
2500-2999..	5,332	523	4,791	18	98.1
3000-3499..	14,192	1,087	13,067	38	76.6
3500-3999..	13,525	735	12,760	30	54.3
4000-4499..	4,986	241	4,737	8	48.3
4500-4999..	918	40	877	1	43.6
5000 & OVER	96	6	90	-	62.5
UNKNOWN....	22	8	11	3	363.6

- QUANTITY IS ZERO
1/ LESS THAN 5 PRENATAL VISITS OR CARE BEGAN IN THE THIRD TRIMESTER
2/ ALL RATES PER 1,000 BIRTHS

TABLE 2-27. INADEQUATE PRENATAL CARE BY COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	TOTAL BIRTHS	PRENATAL CARE			RATE INADEQUATE 2/
		INADEQUATE 1/	ADEQUATE	NOT STATED	
TOTAL	41,223	3,020	38,079	124	73.3
BAKER	185	4	181	-	21.6 -
BENTON	853	29	823	1	34.0 -
CLACKAMAS	3,653	223	3,422	8	61.0 -
CLATSOP	459	31	428	-	67.5
COLUMBIA	534	33	498	3	61.8
COOS	777	77	699	1	99.1 +
CROOK	226	6	220	-	26.5 -
CURRY	204	19	181	4	93.1
DESCHUTES	1,027	82	945	-	79.8
DOUGLAS	1,354	80	1,272	2	59.1
GILLIAM	20	-	20	-	.0
GRANT	116	5	110	1	43.1
HARNEY	112	9	102	1	80.4
HOOD RIVER	289	16	273	-	55.4
JACKSON	1,981	169	1,811	1	85.3
JEFFERSON	278	27	251	-	97.1
JOSEPHINE	808	71	736	1	87.9
KLAMATH	784	73	710	1	93.1
LAKE	107	11	95	1	102.8
LANE	3,930	272	3,657	1	69.2
LINCOLN	507	36	471	-	71.0
LINN	1,350	112	1,236	2	83.0 -
MALHEUR	463	66	392	5	142.5 +
MARION	3,624	293	3,324	7	80.8
MORROW	121	12	109	-	99.2
MULTNOMAH	9,068	802	8,213	53	88.4 +
POLK	651	43	607	1	66.1
SHERMAN	18	4	14	-	222.2
TILLAMOOK	235	14	220	1	59.6
UMATILLA	957	72	871	14	75.2
UNION	343	8	334	1	23.3 -
WALLOWA	77	7	70	-	90.9
WASCO	266	15	250	1	56.4
WASHINGTON	4,855	244	4,601	10	50.3 -
WHEELER	12	1	11	-	83.3
YAMHILL	979	54	922	3	55.2 -

\- QUANTITY IS ZERO
1/ CARE BEGAN IN 3RD TRIMESTER OR NUMBER OF VISITS IS LESS THAN 5
2/ ALL RATES PER 1,000 BIRTHS
NOTE: SYMBOL - DENOTES RATE IS SIGNIFICANTLY LESS THAN STATE RATE
SYMBOL + DENOTES RATE IS SIGNIFICANTLY GREATER THAN STATE RATE

TABLE 2-28. INADEQUATE PRENATAL CARE BY COUNTY OF RESIDENCE FOR UNWED MOTHERS, OREGON, 1989

COUNTY OF RESIDENCE	TOTAL BIRTHS	PRENATAL CARE			RATE INADEQUATE 2/
		INADEQUATE 1/	ADEQUATE	NOT STATED	
TOTAL	10,437	1,564	8,818	55	149.9
BAKER	42	2	40	-	47.6
BENTON	127	13	114	-	102.4
CLACKAMAS	685	93	590	2	135.8
CLATSOP	128	15	113	-	117.2
COLUMBIA	134	16	116	2	119.4
COOS	223	36	186	1	161.4
CROOK	61	2	59	-	32.8
CURRY	60	10	50	-	166.7
DESCHUTES	233	39	194	-	167.4
DOUGLAS	366	40	325	1	109.3
GILLIAM	1	-	1	-	.0
GRANT	11	-	11	-	.0
HARNEY	14	2	11	1	142.9
HOOD RIVER	55	6	49	-	109.1
JACKSON	526	86	440	-	163.5
JEFFERSON	103	12	91	-	116.5
JOSEPHINE	255	37	218	-	145.1
KLAMATH	233	41	191	1	176.0
LAKE	23	5	17	1	217.4
LANE	1,016	137	879	-	134.8
LINCOLN	140	24	116	-	171.4
LINN	361	51	310	-	141.3
MALHEUR	135	29	105	1	214.8
MARION	1,039	159	875	5	153.0
MORROW	36	7	29	-	194.4
MULTNOMAH	2,733	496	2,207	30	181.5
POLK	183	19	163	1	103.8
SHERMAN	4	1	3	-	250.0
TILLAMOOK	55	8	47	-	145.5
UMATILLA	327	37	287	3	113.1
UNION	61	4	56	1	65.6
WALLOWA	11	3	8	-	272.7
WASCO	71	8	62	1	112.7
WASHINGTON	745	102	640	3	136.9
WHEELER	-	-	-	-	-
YAMHILL	240	24	215	1	100.0

- QUANTITY IS ZERO
1/ CARE BEGAN IN 3RD TRIMESTER OR NUMBER OF VISITS IS LESS THAN 5
2/ ALL RATES PER 1,000 BIRTHS

TABLE 2-29. TOBACCO USE DURING PREGNANCY BY RESIDENT COUNTY AND MARITAL STATUS, OREGON, 1989

COUNTY OF RESIDENCE	ALL BIRTHS			WED			UNWED		
	TOTAL	TOBACCO USE		TOTAL	TOBACCO USE		TOTAL	TOBACCO USE	
		YES	NO		YES	NO		YES	NO
TOTAL	41,223	9,731	31,074	30,779	5,133	25,379	10,437	4,597	5,694
BAKER	185	60	122	143	36	104	42	24	18
BENTON	853	104	746	726	57	669	127	47	77
CLACKAMAS	3,653	809	2,814	2,968	488	2,459	685	321	355
CLATSOP	459	145	314	331	68	263	128	7	51
COLUMBIA	534	114	420	400	60	340	134	54	80
COOS	777	250	526	554	141	413	223	109	113
CROOK	226	66	160	165	34	131	61	32	29
CURRY	204	59	110	144	30	84	60	29	26
DESCHUTES	1,027	265	759	794	152	639	233	113	120
DOUGLAS	1,354	379	961	987	197	781	366	182	180
GILLIAM	20	2	18	19	2	17	1		1
GRANT	116	14	102	105	12	93	11	2	9
HARNEY	112	14	96	98	11	86	14	3	10
HOOD RIVER	289	37	250	234	20	213	55	17	37
JACKSON	1,981	467	1,509	1,454	239	1,212	526	227	297
JEFFERSON	278	68	210	175	38	137	103	30	73
JOSEPHINE	808	254	550	553	135	416	255	119	134
KLAMATH	784	235	547	551	139	411	233	96	136
LAKE	107	22	85	84	9	75	23	13	10
LANE	3,930	808	3,033	2,914	429	2,425	1,016	379	608
LINCOLN	507	178	325	367	99	265	140	79	60
LINN	1,350	367	973	988	206	776	361	161	196
MALHEUR	463	68	380	327	35	281	135	33	99
MARION	3,624	799	2,788	2,584	390	2,176	1,039	409	612
MORROW	121	17	89	85	8	67	36	9	22
MULTNOMAH	9,068	2,458	6,551	6,334	1,120	5,182	2,733	1,338	1,369
POLK	651	156	489	468	83	381	183	73	108
SHERMAN	18	6	12	14	5	9	4	1	3
TILLAMOOK	235	84	149	180	49	129	55	35	20
UMATILLA	957	241	671	630	118	484	327	123	187
UNION	343	68	274	282	38	243	61	30	31
WALLOWA	77	19	58	66	15	51	11	4	7
WASCO	266	71	190	195	38	156	71	33	34
WASHINGTON	4,855	803	4,036	4,109	514	3,586	745	289	450
WHEELER	12	2	10	12	2	10	-	-	-
YAMHILL	979	222	747	739	116	615	240	106	132

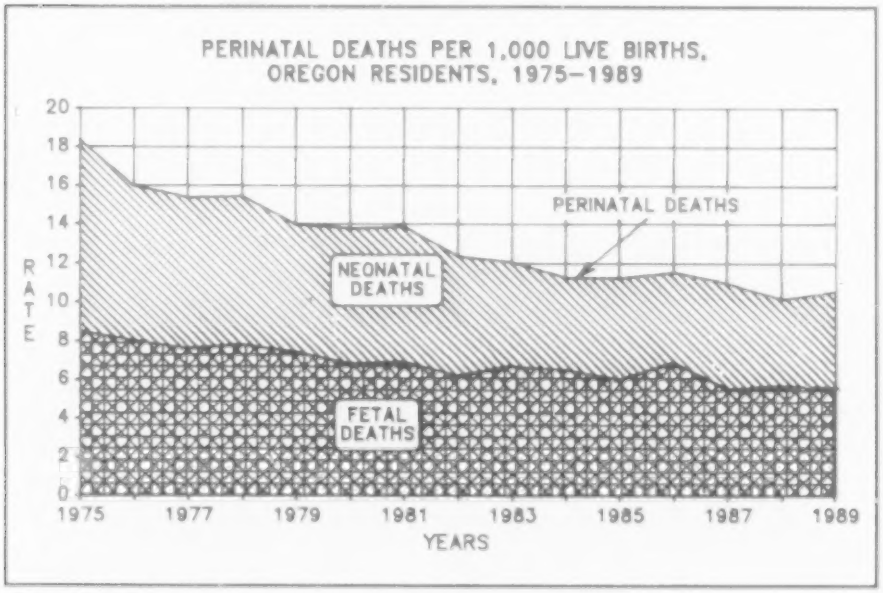
NOTE: TOTAL BIRTHS INCLUDE 418 BIRTHS WITH UNKNOWN TOBACCO USE, 267 WED AND 146 UNWED. TOTAL ALSO INCLUDES 7 BIRTHS FOR WHOM MARITAL STATUS IS UNKNOWN.

Fetal and Infant Death

PERINATAL DEATH. Perinatal deaths include both fetal deaths and neonatal deaths; they may be considered as "...reflecting standards of obstetric and pediatric care as well as the effectiveness of social measures in general and of public health actions in particular."[1] Perinatal deaths in Oregon have declined over the last decade due to the decline in both neonatal and fetal deaths (Figure 3-1).

The latest year of national data available for perinatal deaths is 1987. In 1987 Oregon's ratio of perinatal death[2] (11.2 per 1,000 births) was 21.1 percent below the U.S. ratio (14.2). The Oregon fetal death ratio was 25.0 percent lower than the U.S. ratio, while the Oregon neonatal death rate was 15.4 percent lower than the U.S. rate.

Figure 3-1.



Ratio per 1,000 births

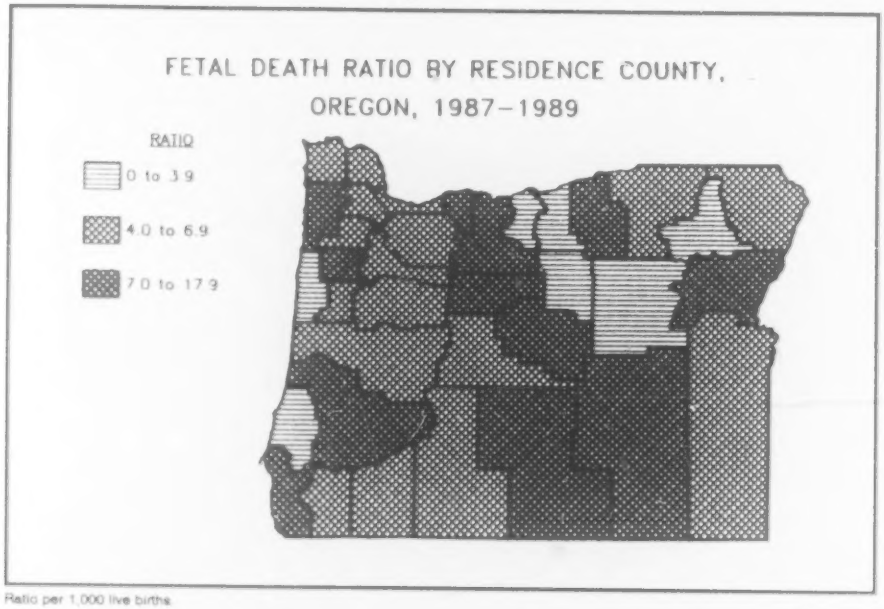
FETAL DEATH. In Oregon, 230 fetal deaths of at least 20 weeks gestation were reported in 1989. The ratio of fetal deaths (5.6 per 1,000 live births) set a record low in 1989. The total number of births increased in 1989, but the total number of fetal deaths decreased by five resulting in a 5.1 percent decline in the fetal death ratio. When fetal deaths first became reportable in 1928, the ratio was 29.0. Since then we've seen a long-term downward trend which has lasted 61 years. In 1989, the fetal death ratio is nearly four-fifths lower than the 1928 ratio (Table 1-4).

Oregon's fetal death rate hits record low

County of residence. Fetal death ratios vary greatly from county to county, but no county was statistically significantly different from the state ratio (Figure 3-2). Eight counties reported no fetal deaths. These data are based on relatively few events and should be viewed with caution.

1. *A WHO Report on Social and Biological Effects on Perinatal Mortality*, Vol. 1, World Health Organization, 1978.
2. Ratio defined in Technical Notes section of this report.

Figure 3-2.



Ratio per 1,000 live births

Fetal death ratios by Mother's age		
AGE	1989	1988
TOTAL	5.6	5.9
15-44	5.4	5.9
15-19	4.9	6.7
20-24	4.7	5.3
25-29	4.7	4.5
30-34	5.5	5.7
35-39	9.9	13.4
40-44	11.6	4.3

Risk by maternal age. Older pregnant women were more apt to experience a fetal death during 1989 than their younger counterparts. The greatest risk of fetal death occurred among women 40-44. The risk of their pregnancy ending with a fetal death (11.6) was over twice as high as that for women under 35 years of age. However, these rates are based on relatively few events. (See sidebar.)

Cause of death. Complications of the placenta, cord, and membranes accounted for 95 deaths. The second leading cause of fetal death was other and ill-defined conditions, followed by congenital anomalies and maternal complications of pregnancy (Table 3-1). These causes of death accounted for 85.2 percent of all 1989 fetal deaths. There was little change in the distribution of deaths by cause compared to the previous year, except that congenital anomalies displaced maternal complications of pregnancy as the third ranked cause of fetal death.

INFANT DEATH. During 1989, the infant death rate moved upward from 8.5 per 1,000 live births in 1988 to 8.8 per 1,000 live births. This occurred after the largest one-year drop in Oregon since World War II. In all, 364 infants of Oregon resident infants died during 1989. This is the second lowest number in the state's history. Clatsop and Lane counties had significantly lower infant death rates than the state's rate. Although some counties' infant death rates were 50 percent higher than the state's rate, none of these rates were statistically significantly higher.

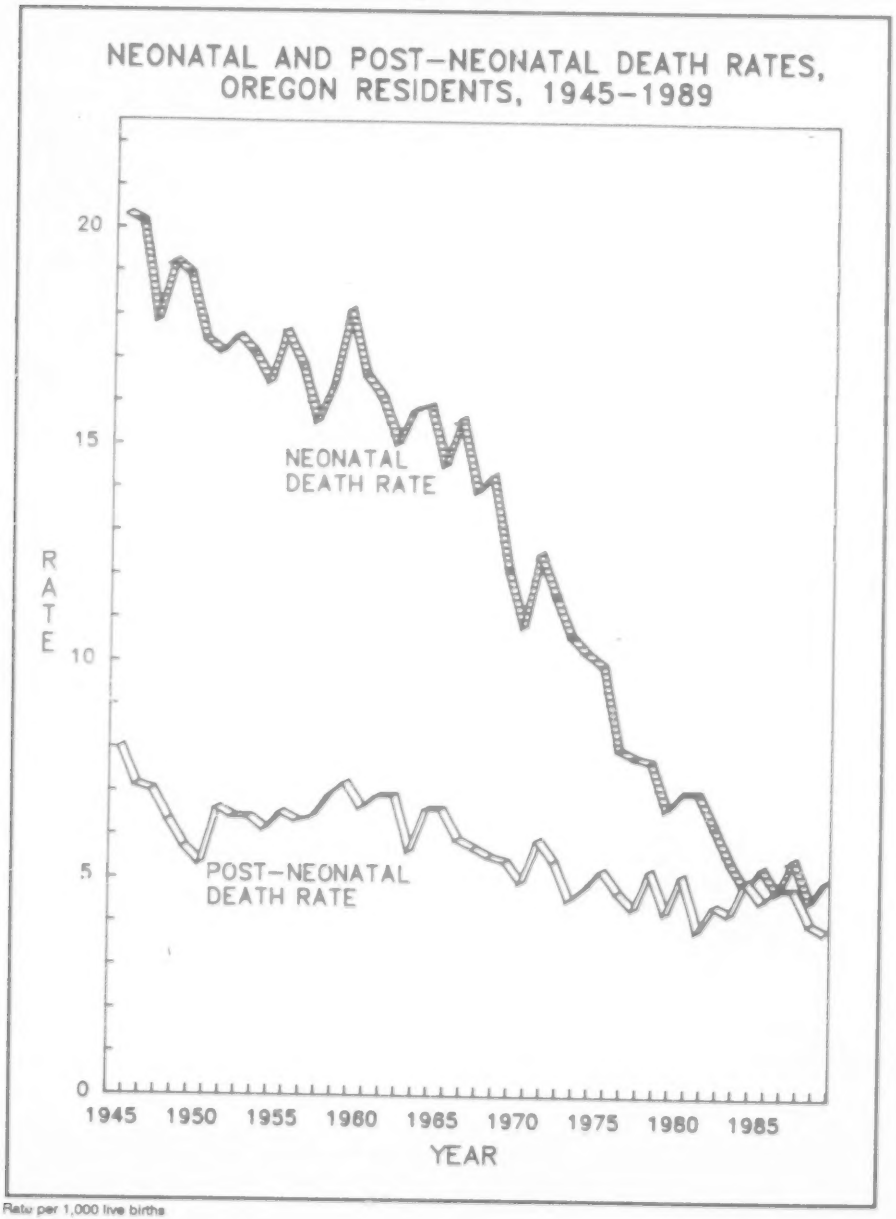
Neonatal death. More infants died during the neonatal period (the first 27 days of life) during 1989 than during 1988. The neonatal death rate rose from 4.5 to 5.0, an 11.1 percent rise. It's still not as high, however, as the 1987 rate (5.5). Oregon's neonatal death rate has consistently been below the U.S. rate. During 1989, the state's rate was 19.4 percent lower than the nation's (6.2).

The most frequent cause of death in the neonatal period is congenital anomalies. The second most frequent cause of death is respiratory distress syndrome. These causes were ranked in the same order in 1988.

Postneonatal death. The risk of death to an Oregon infant during the postneonatal period has been, in recent years, substantially greater than that posed to the average U.S. infant. This was again true for 1989 (3.8 vs. 3.5). The magnitude of the difference was 8.6 percent. Oregon's rate fell from 4.0 to 3.8 percent. The drop represents the third decrease in the postneonatal death rate in three years. In 1984 and 1986, the postneonatal death rate was slightly higher than the neonatal death rate. In 1989, the postneonatal deaths represented 43.2 percent of the total infant mortality rate. The percentage of postneonatal deaths has not been this low since

Risk of postneonatal deaths greater in Oregon than the U.S.

Figure 3-3.



Rate per 1,000 live births

Percentage of neonatal and postneonatal deaths, Oregon residents, 1980 - 1989

YEAR	NEONATAL DEATHS	POSTNEONATAL DEATHS
1980	57.9	42.1
1981	64.8	35.2
1982	58.5	41.5
1983	56.3	43.8
1984	49.0	51.0
1985	54.1	45.9
1986	49.5	50.5
1987	53.8	46.2
1988	52.9	47.1
1989	56.8	43.2

1982 (see sidebar).

Oregon's Sudden Infant Death Syndrome (SIDS) rate is 2.4 deaths per 1,000 live births. In 1987, the U.S. SIDS rate was 1.4. Oregon, along with other states in the Pacific Northwest, has had a history of elevated SIDS rates.

SIDS is ranked as the number one cause of infant deaths in the postneonatal period. Congenital anomalies ranked second. Almost all SIDS deaths occur in the postneonatal period. Most of the risk factors associated with infant death (low birthweight, nonwhite race, inadequate prenatal care, teenage mother or unwed mother) are also associated with SIDS deaths.

TABLE 3-1. FETAL DEATHS BY WEEKS OF GESTATION AND CAUSE OF DEATH, OREGON RESIDENTS, 1989

CAUSE OF DEATH	TOTAL	WEEKS OF GESTATION								
		20-23	24-27	28-31	32-35	36	37-39	40	41+	N.S.
Total	230	61	30	23	34	9	33	18	17	5
Congenital Anomalies	22	9	1	3	2	1	1	3	2	-
Maternal Condition Which May Be Unrelated	9	2	-	1	1	-	3	-	2	-
Maternal Complications Of Pregnancy	12	10	-	-	-	-	-	1	1	-
Complications Of Placenta, Cord, And Membranes	95	17	10	13	17	5	17	6	6	4
Other Complications Of Labor And Delivery	2	-	1	-	-	-	1	-	-	-
Slow Fetal Growth And Malnutrition	2	-	1	1	-	-	-	-	-	-
Short Gestation And Low Birthweight	7	5	1	-	1	-	-	-	-	-
Long Gestation And High Birthweight	2	-	-	-	-	-	1	-	1	-
Birth Trauma	-	-	-	-	-	-	-	-	-	-
Intrauterine Hypoxia And Birth Asphyxia	5	-	-	-	-	-	1	4	-	-
Respiratory Distress Syndrome	-	-	-	-	-	-	-	-	-	-
Other Respiratory	-	-	-	-	-	-	-	-	-	-
Perinatal Infections	2	-	2	-	-	-	-	-	-	-
Fetal And Neonatal Hemorrhage	-	-	-	-	-	-	-	-	-	-
Hemolytic Disease	1	1	-	-	-	-	-	-	-	-
Other Perinatal Jaundice	-	-	-	-	-	-	-	-	-	-
Endocrine Or Metabolic Disturbances	2	-	-	-	2	-	-	-		
Hematological Disorders	-	-	-	-	-	-	-	-	-	-
Digestive Disorders	1	-	-	-	-	-	-	-	1	-
Integument And Temperature Regulation	1	-	1	-	-	-	-	-	-	-
Other And Ill Defined	67	17	13	5	11	3	9	4	4	1

- Quantity Is Zero

FETAL AND INFANT DEATH

TABLE 3-2. FETAL DEATHS BY WEEKS OF GESTATION AND AGE OF MOTHER, OREGON RESIDENTS, 1989

AGE OF MOTHER	TOTAL	WEEKS OF GESTATION								
		20-23	24-27	28-31	32-35	36	37-39	40	41+	N.S.
TOTAL	230	61	30	23	34	9	33	18	17	5
<15	1	-	-	1	-	-	-	-	-	-
15-19	25	9	3	3	5	-	2	2	1	-
20-24	53	16	5	7	9	4	7	4	1	-
25-29	61	14	7	5	10	-	11	6	7	1
30-34	46	10	7	6	2	3	8	3	5	2
35-39	33	9	7	-	6	2	4	2	2	1
40-44	6	3	-	1	-	-	1	-	1	-
45+	2	-	1	-	1	-	-	-	-	-
N.S.	3	-	-	-	1	-	-	1	-	1

- QUANTITY IS ZERO

TABLE 3-3. FETAL DEATHS BY AGE OF MOTHER AND COUNTY OF RESIDENCE, OREGON, 1989

PLACE OF RESIDENCE	TOTAL	AGE OF MOTHER								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
TOTAL	230	1	24	53	59	47	33	6	2	5
RATIO TO BIRTHS	5.6	-	4.9	4.7	4.7	5.5	9.9	11.6	-	-
BAKER	3	-	-	1	2	-	-	-	-	-
BENTON	7	-	1	1	-	3	2	-	-	-
CLACKAMAS	20	-	3	2	3	8	2	-	-	2
CLATSOP	1	-	-	1	-	-	-	-	-	-
COLUMBIA	3	-	1	1	-	-	1	-	-	-
COOS	6	-	-	1	3	-	2	-	-	-
CROOK	2	-	1	-	-	1	-	-	-	-
CURRY	-	-	-	-	-	-	-	-	-	-
DESCHUTES	8	-	4	1	1	1	1	-	-	-
DOUGLAS	11	-	2	3	2	1	3	-	-	-
GILLIAM	-	-	-	-	-	-	-	-	-	-
GRANT	-	-	-	-	-	-	-	-	-	-
HARNEY	-	-	-	-	-	-	-	-	-	-
HOOD RIVER	2	-	-	1	1	-	-	-	-	-
JACKSON	8	-	1	3	2	-	-	1	1	-
JEFFERSON	1	-	-	1	-	-	-	-	-	-
JOSEPHINE	6	-	-	1	2	-	2	1	-	-
KLAMATH	3	-	-	2	1	-	-	-	-	-
LAKE	2	-	1	-	-	-	1	-	-	-
LANE	22	-	1	5	9	4	3	-	-	-
LINCOLN	1	-	-	-	1	-	-	-	-	-
LINN	7	1	2	2	2	-	-	-	-	-
MALHEUR	2	-	1	-	-	-	1	-	-	-
MARION	24	-	1	8	6	5	1	1	1	1
MORROW	2	-	-	-	1	-	-	-	-	1
MULTNOMAH	41	-	2	7	10	12	7	2	-	1
POLK	7	-	-	2	2	1	2	-	-	-
SHERMAN	-	-	-	-	-	-	-	-	-	-
TILLAMOOK	1	-	-	-	-	-	1	-	-	-
UMATILLA	5	-	-	2	2	-	1	-	-	-
UNION	-	-	-	-	-	-	-	-	-	-
WALLOWA	-	-	-	-	-	-	-	-	-	-
WASCO	2	-	-	-	1	1	-	-	-	-
WASHINGTON	26	-	1	6	8	10	-	1	-	-
WHEELER	-	-	-	-	-	-	-	-	-	-
YAMHILL	7	-	2	2	-	-	3	-	-	-

- QUANTITY IS ZERO

TABLE 3-4. INFANT DEATHS BY COUNTY OF RESIDENCE AND AGE AT TIME OF DEATH, OREGON, 1989

COUNTY OF RESIDENCE	TOTAL INFANT DEATHS	INFANT DEATH RATE 1/	AGE UNDER 28 DAYS NEONATAL DEATHS				NEONATAL RATE 1/	POST NEONATAL DEATHS	POST-NEONATAL RATE 1/
			TOTAL NEO-NATAL	< 1 DAY	1-6 DAYS	7-27 DAYS			
TOTAL.....	364	8.8	205	121	49	35	5.0	159	3.8
BAKER.....	1	5.4	1	-	1	-	5.4	-	.0
BENTON.....	6	7.0	4	2	-	2	4.7	2	2.3
CLACKAMAS..	35	9.6	19	8	7	4	5.2	16	4.4
CLATSOP....	1	2.2-	1	-	1	-	2.2	-	.0
COLUMBIA...	2	3.7	2	1	-	1	3.7	-	.0
COOS.....	7	9.0	3	2	1	-	3.9	4	5.1
CROOK.....	-	.0	-	-	-	-	.0	-	.0
CURRY.....	2	9.8	1	1	-	-	4.9	1	4.9
DESCHUTES..	13	12.7	8	5	2	1	7.8	5	4.9
DOUGLAS....	13	9.6	6	4	2	-	5.2	7	4.4
GILLIAM....	-	.0	-	-	-	-	.0	-	.0
GRANT.....	-	.0	-	-	-	-	.0	-	.0
HARNEY.....	-	.0	-	-	-	-	.0	-	.0
HOOD RIVER.	-	.0	-	-	-	-	.0	-	.0
JACKSON....	17	8.6	9	7	1	1	4.5	8	4.0
JEFFERSON..	4	14.4	2	2	-	-	7.2	2	7.2
JOSEPHINE..	8	9.9	3	2	-	1	3.7	5	6.2
KLAMATH....	11	14.0	6	6	-	-	7.7	5	6.4
LAKE.....	-	.0	-	-	-	-	.0	-	.0
LANE.....	21	5.3-	13	8	4	1	3.3	8	2.0
LINCOLN....	6	11.8	2	2	-	-	3.9	4	7.9
LINN.....	8	5.9	4	3	1	-	3.0	4	3.0
MALHEUR....	5	11.2	2	2	-	-	4.5	3	6.7
MARION.....	37	10.2	22	14	6	2	6.1	15	4.1
MORROW.....	4	33.1	3	2	-	1	24.8	1	8.3
MULTNOMAH..	104	11.5	57	29	16	12	6.3	47	5.2
POLK.....	4	6.1	4	1	2	1	6.1	-	.0
SHERMAN....	-	.0	-	-	-	-	.0	-	.0
TILLAMOOK..	4	17.0	4	2	-	2	17.0	-	.0
UMATILLA...	9	9.4	9	6	-	3	9.4	-	.0
UNION.....	6	17.5	2	1	1	-	5.8	4	11.7
WALLOWA....	1	13.0	-	-	-	-	.0	1	13.0
WASCO.....	1	3.8	-	-	-	-	.0	1	3.8
WASHINGTON.	31	6.4	16	9	4	3	3.3	15	3.1
WHEELER....	-	.0	-	-	-	-	.0	-	.0
YAMHILL....	3	3.1	2	2	-	-	2.0	1	1.0

- QUANTITY IS ZERO
1/ RATES PER 1,000 BIRTHS
NOTE: SYMBOL - DENOTES RATE IS SIGNIFICANTLY LESS THAN STATE RATE
SYMBOL + DENOTES RATE IS SIGNIFICANTLY GREATER THAN STATE RATE

TABLE 3-5. RESIDENT INFANT DEATHS BY CAUSE AND AGE AT DEATH, OREGON, 1989

CAUSE OF DEATH	AGE GROUPS					
	TOTAL DEATHS	UNDER 1 DAY	1-6 DAYS	7-27 DAYS	ALL NEONATES	POST-NEONATES
TOTAL	364	121	49	35	205	159
RATE	8.8	2.9	1.2	.8	5.0	3.9
CERTAIN CAUSES OF MORTALITY IN EARLY INFANCY	163	91	35	19	145	18
CONDITIONS OF PLACENTA AND CORD	17	11	3	2	16	1
IMMATURITY, UNQUALIFIED	30	27	2	-	29	1
BIRTH TRAUMA WITHOUT MENTION OF CAUSE	6	-	2	3	5	1
ANOXIC AND HYPOXIC CONDITIONS	11	4	3	1	8	3
RESPIRATORY DISTRESS SYNDROME	37	15	10	7	32	5
OTHER RESPIRATORY CONDITIONS	22	8	5	2	15	7
OTHER COMPLICATIONS OF PREGNANCY & DELIVERY	23	19	3	1	23	-
ALL OTHER	17	7	7	3	17	-
OTHER DISEASES	196	30	14	16	60	136
CONGENITAL ANOMALIES	77	27	12	12	51	26
DISEASES OF NERVOUS SYSTEM	5	-	-	-	-	5
PNEUMONIA OR INFLUENZA	3	-	-	-	-	3
RESPIRATORY DISTRESS	2	-	-	-	-	2
SUDDEN INFANT DEATH SYNDROME	93	-	-	3	3	90
ALL OTHER DISEASES	16	3	2	1	6	10
VIOLENT AND ACCIDENTAL CAUSES	5	-	-	-	-	5
MOTOR VEHICLE	1	-	-	-	-	1
OTHER ACCIDENTAL CAUSES	2	-	-	-	-	2
HOMICIDE	-	-	-	-	-	-
OTHER EXTERNAL CAUSES	2	-	-	-	-	2

NOTE: RATES PER 1,000 LIVE BIRTHS.
NEONATES ARE INFANTS IN THE FIRST 27 DAYS OF LIFE.
POSTNEONATES ARE 28 DAYS UP TO ONE YEAR OF AGE.

Mortality

ALL CAUSES. Every 21 minutes, on the average, an Oregonian dies. For the decade prior to 1982, the Oregon death rate fell sharply. The rate then rose during four of the five subsequent years. It changed little during 1988 but during 1989 fell to 884.2 per 100,000 population, a one year decline of 1.3 percent. Nonetheless, a record high 24,679 Oregonians died during 1989. (Because the population grew more quickly than the number of deaths, the death rate registered a decline.) Notable increases occurred in deaths due to chronic obstructive pulmonary disease, perinatal conditions, and AIDS. For the fifth straight year, the death rate was higher in Oregon than in the nation (868.1). These and other rates are not age-adjusted; see the Technical Notes for comments on age-adjusted rates.

The median age at death reached 76 during 1989, a record high.

Since 1980, the death rates have fallen for all age groups, except for 25- to 44-year-olds of both sexes and 5- to 14-year-old girls (Table 4-1). The largest decline occurred among children under 5 years of age. With only the exception of 15- to 24-year-olds, the largest declines between 1980 and 1989 occurred among males.

HEART DISEASE. The heart disease death rate fell to a record low in 1989, declining 4.1 percent over the previous year to 268.1 per 100,000 population.[1] As with many causes of death, the mortality rates for heart disease are higher among males than females.

Every hour and a half an Oregonian succumbs to heart disease.

Heart disease is the preeminent cause of death, accounting for about one of every three resident deaths, or one death every 70 minutes. The Oregon heart disease death rate has consistently been lower than the

Figure 4-1.

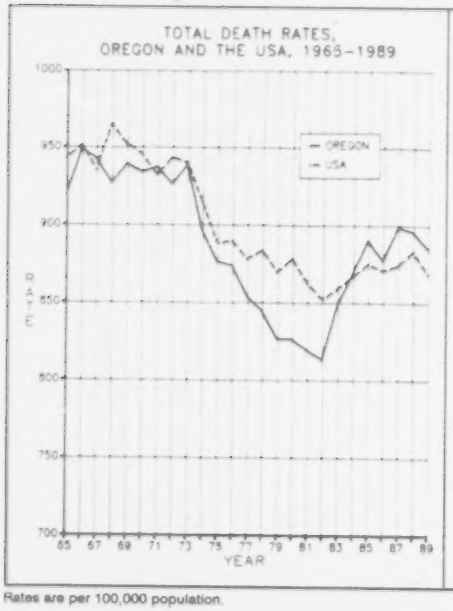
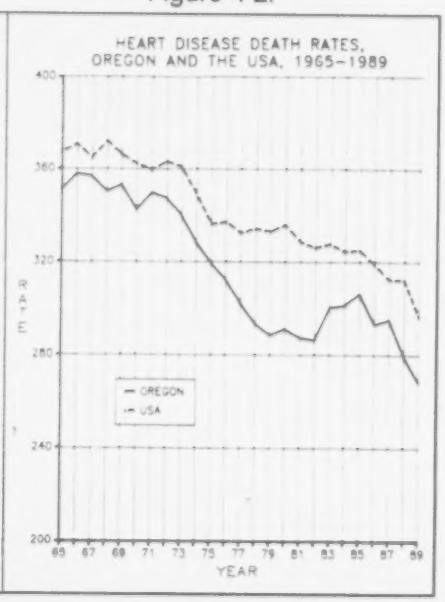


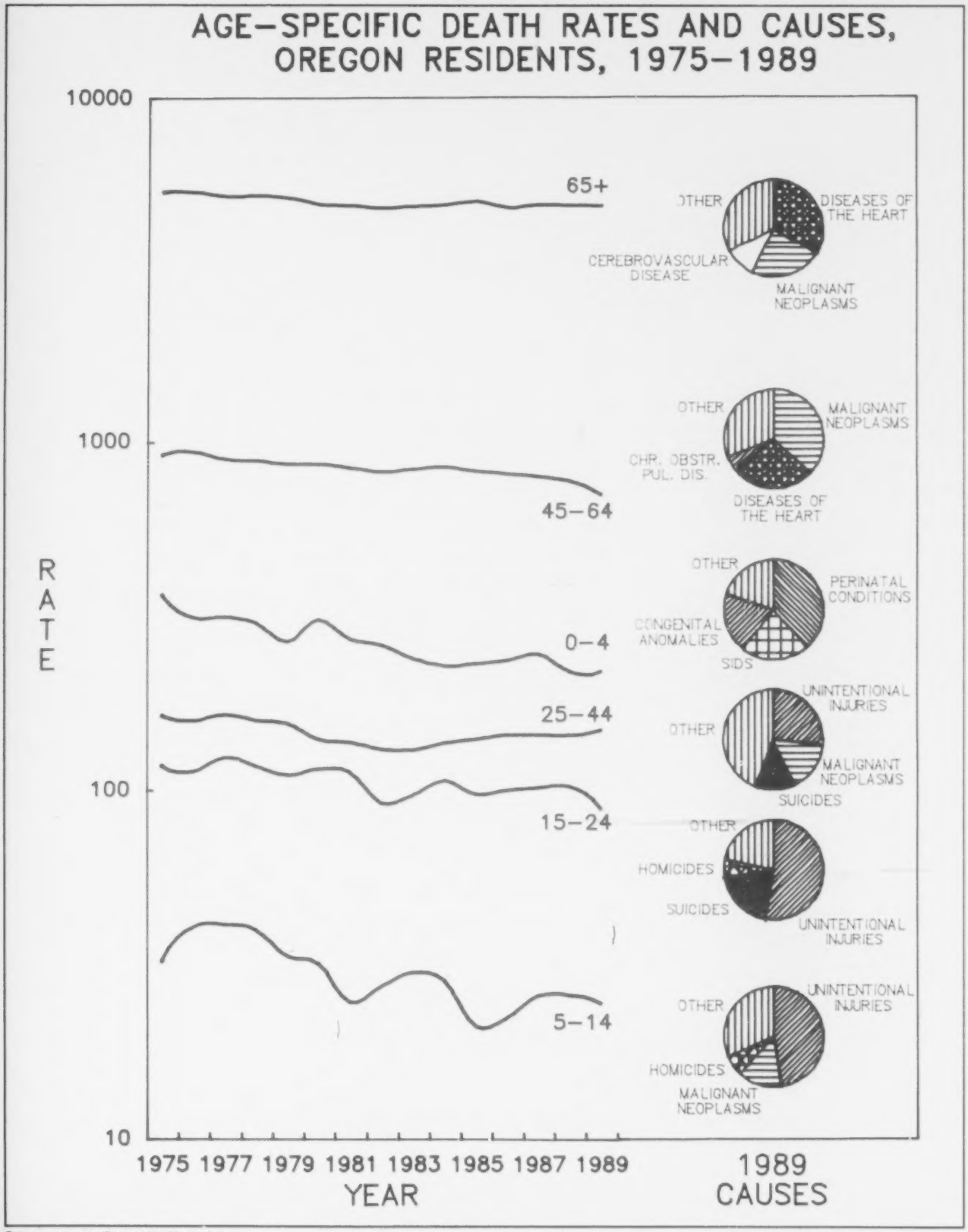
Figure 4-2.



Rates are per 100,000 population.

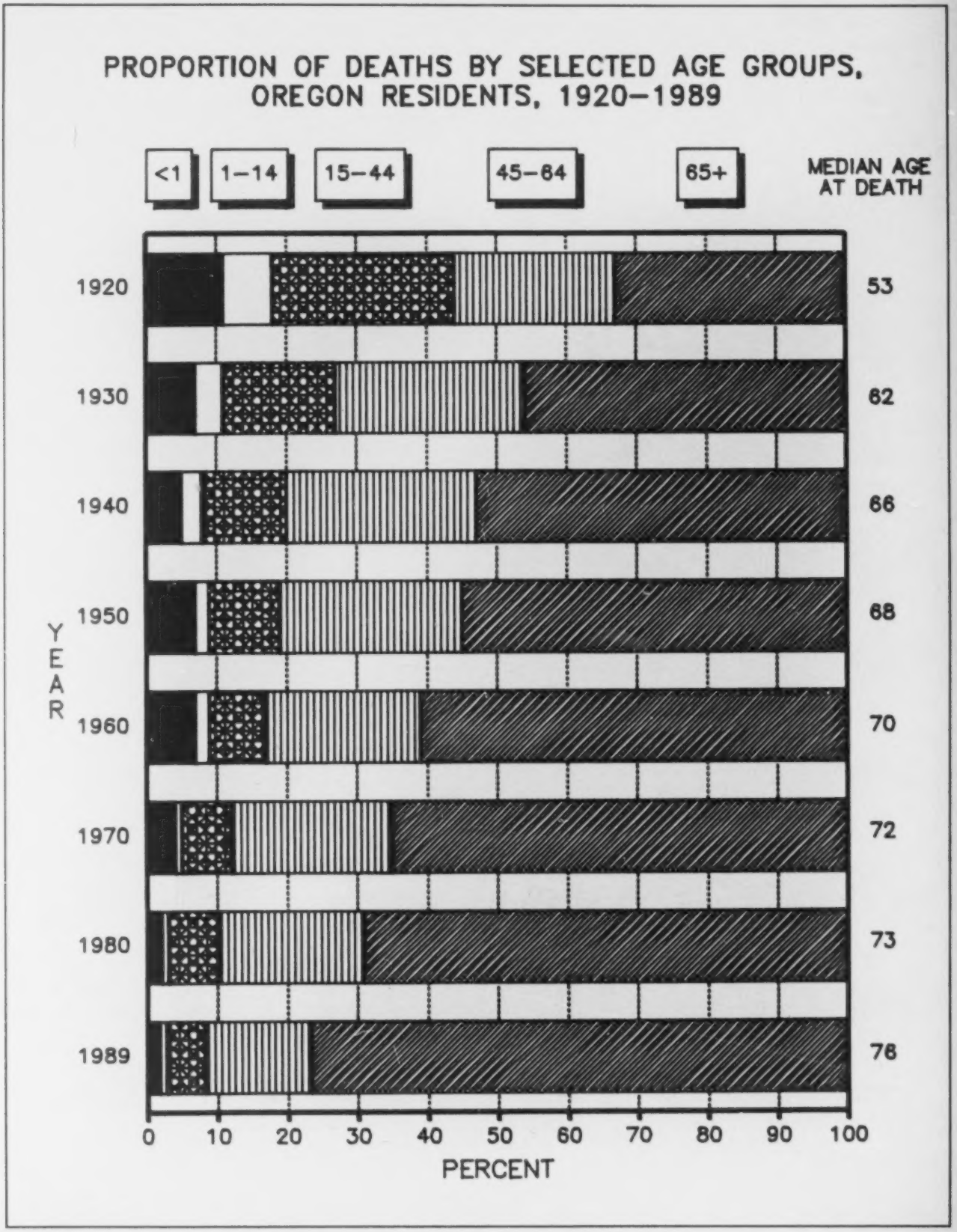
1. These and subsequent heart disease rates do not include alcoholic cardiomyopathy deaths which are included in the alcoholism category. The totals for heart disease (including alcoholic cardiomyopathy) deaths are given in Tables 4-6, 4-7, and 4-20 – 4-22.

Figure 4-3.



Rates are age-specific per 100,000 population.

Figure 4-4.


PROPORTION OF DEATHS BY SELECTED AGE GROUPS,
OREGON RESIDENTS, 1920–1989
<1
1–14
15–44
45–64
65+
MEDIAN AGE AT DEATH
1920
1930
1940
1950
1960
1970
1980
1989
53
62
66
68
70
72
73
78
YEAR
0
10
20
30
40
50
60
70
80
90
100
PERCENT

The death of one of every three Oregonians is due to heart disease.

national rate, and is 9.5 percent lower than the estimated 1989 national rate of 296.3. In recent years, residents of the northern Willamette Valley have been significantly more likely than other Oregonians to die from heart disease.[2] Many conditions are included in the complex of heart disease. Most common are myocardial infarctions, coronary occlusions, coronary thromboses, and arteriosclerotic and cardiovascular heart disease, which comprise the majority of all heart disease. The infarctions, occlusions, and thromboses are acute, often terminal events, while the others represent chronic ailments of the cardiac function.

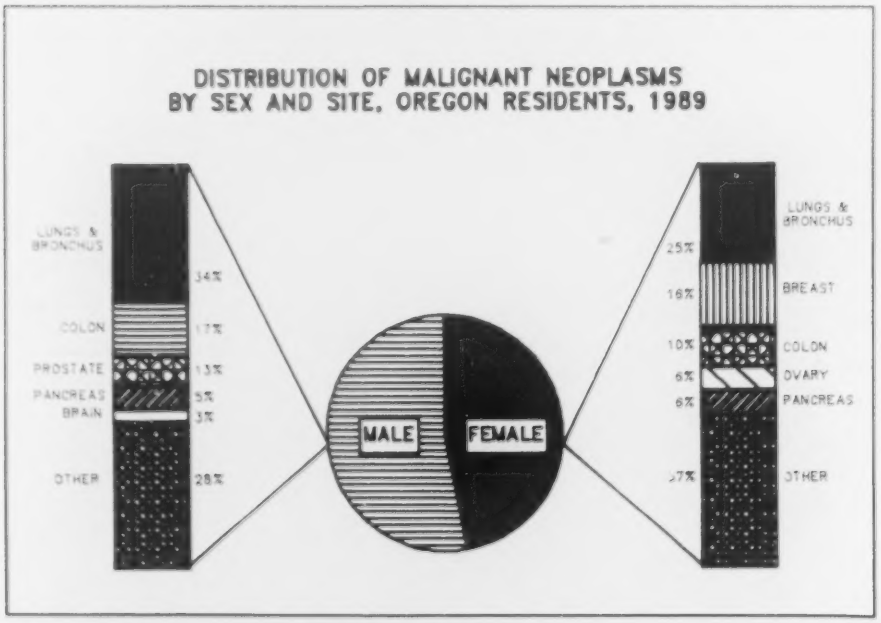
CANCER. The long-term upward trend of the malignant neoplasm death rate paused during 1989 at 208.5 per 100,000 population. The rate was little changed from the prior year's record high of 211.6. Malignant neoplasms are the leading cause of death in each ten-year age group between 45 and 74 years. The death rate for males (226.8) is 16.8 percent higher than that for females (190.9) with the disparity greatest among the elderly. The Oregon cancer death rate is 4.1 percent higher than the estimated national rate of 200.3. Cancer claims an Oregonian every 1.5 hours.

Lung cancer is claiming a growing number of women.

The lungs are the most common site of cancer for both males and females but lung cancer deaths are becoming increasingly prevalent among women. A decade ago, there were 2.5 lung cancer fatalities among men for every female death from this cause. By 1989, the ratio declined to 1.7-to-1. The total lung cancer death rate has more than quintupled since 1950, increasing from 11.6 to 61.9 per 100,000. This has been accompanied by a sharp increase in chronic obstructive pulmonary disease deaths as well.

CEREBROVASCULAR DISEASE. Until 1983, the death rate for cerebrovascular disease was on a downward trend. Since then the rate has

Figure 4-5.



2. *Oregon Leading Causes of Mortality, 1978-1986.* Center for Health Statistics, Health Division, Oregon Department of Human Resources. June 1988.

Figure 4-6.

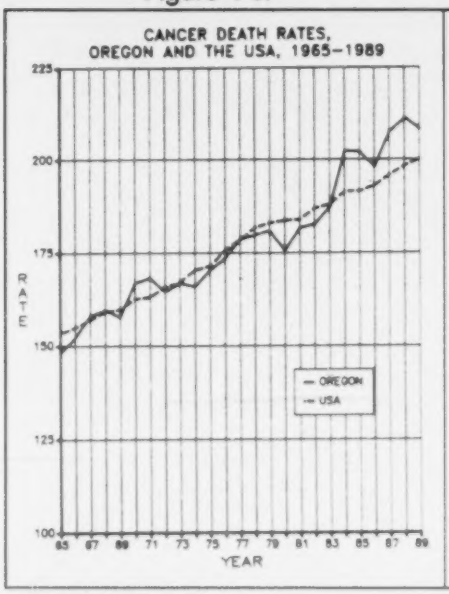
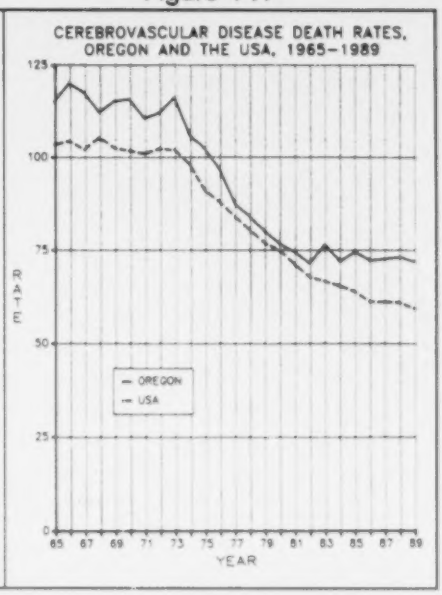


Figure 4-7.



Rates are per 100,000 population.

changed little and currently stands at 71.9 per 100,000 population. Cerebrovascular disease is the third most common cause of death. This disease strikes females far more often than males (although males under 75 years of age have higher cerebrovascular disease death rates than females). In 1989 the overall female and male death rates were 84.0 and 59.3, respectively. For the past 20 years, the death rate for this cause has consistently been higher in Oregon than in the rest of the nation; it is currently 21.0 percent above the estimated national rate of 59.4. Every 4.4 hours, on the average, an Oregon resident succumbs to cerebrovascular disease. Sudden circulatory crises such as strokes, cerebral thromboses and hemorrhages are common acute forms of these diseases; cerebral arteriosclerosis is a chronic form.

Cerebrovascular disease claims more females than males.

RESPIRATORY DISEASE. In 1987, chronic obstructive pulmonary disease (COPD) became the fourth leading cause of death by displacing unintentional injuries. During 1989 the number of COPD deaths swelled, pushing the death rate to 45.6 per 100,000 population, a near record high. During the 1980s, the death rate increased 44.8 percent, but some of this increase was due to the aging of the population. Middle-aged males during 1989 were less likely to die from COPD than were their counterparts in 1979. Although COPD was more apt to claim older males in 1989 than ten years earlier, the increase was not nearly as large as that experienced by females. Women 55 or older were about 1.8 times more likely to die from COPD during 1989 than were similarly aged women during 1979.

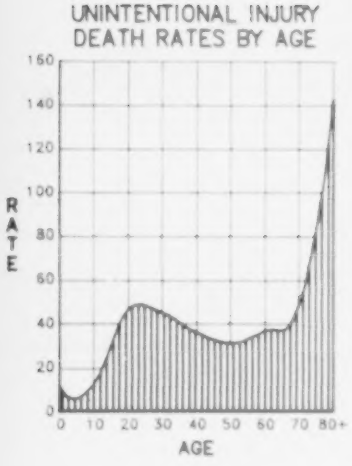
During the 1980s, the COPD death rate increased 44.8 percent.

This group of allied conditions includes four principal diseases: bronchitis, emphysema, asthma, and chronic airways obstruction. Since 1980, the emphysema death rate has declined 3.3 percent but the other three diseases have increased—bronchitis by 14.3 percent, chronic airways obstruction by 83.3 percent, and asthma by 207.7 percent.

In addition to the 1,272 Oregonians whose deaths were due to chronic obstructive pulmonary diseases, these conditions contributed to the deaths

of an additional 1,539 residents. Oregon's COPD death rate (45.6) has long been higher than the nation's and currently is 34.1 percent higher than the estimated U.S. death rate of 34.0. In the state, the highest rates have been in southwestern and eastern Oregon.[2] Every 6.9 hours, chronic obstructive pulmonary disease claims the life of an Oregonian.

UNINTENTIONAL INJURIES. The unintentional injury[3] death rate had been on a downward trend for the past several decades. However, since the early 1980s, the rate has changed little. Unfortunately, Oregonians are more apt to suffer fatal unintentional injuries than the average American. During 1989 the state rate exceeded the estimated national rate by 7.9 percent, 41.2 compared to 38.2 per 100,000 population. Rates for deaths due to unintentional injuries are typically higher east of the Cascade Range and in central Oregon in particular.[2] Unintentional injuries are the leading cause of death for persons 5-44 years old.



Motor vehicle-related unintentional injuries (614) account for over one-half of all unintentional injury deaths (1,151) to Oregonians; three-fifths (60.3 percent) of the motor vehicle unintentional injury decedents were between 15 and 44 years of age. However, among victims of falls (170), the second most common type of unintentional injury, the majority are 75 or older. About one-half of all fatal falls occur in the home. Drownings and poisonings are the third and fourth most common causes of unintentional injury deaths. Sixty-one fatal unintentional injuries were sustained in the workplace during 1989 compared to 48 the previous year. Most of the increase occurred in the logging industry. Every 7.6 hours, an Oregonian dies as a consequence of an unintentional injury. Although this category ranks fifth in the number of deaths, it is the preeminent cause of premature death. Nearly as many years of potential life are lost before age 65 from unintentional injuries as from heart disease and cancer combined.

Figure 4-8.

Figure 4-9.

Rates are per 100,000 population.

3. "Unintentional injuries" is synonymous with accidents (ICD 800-949).

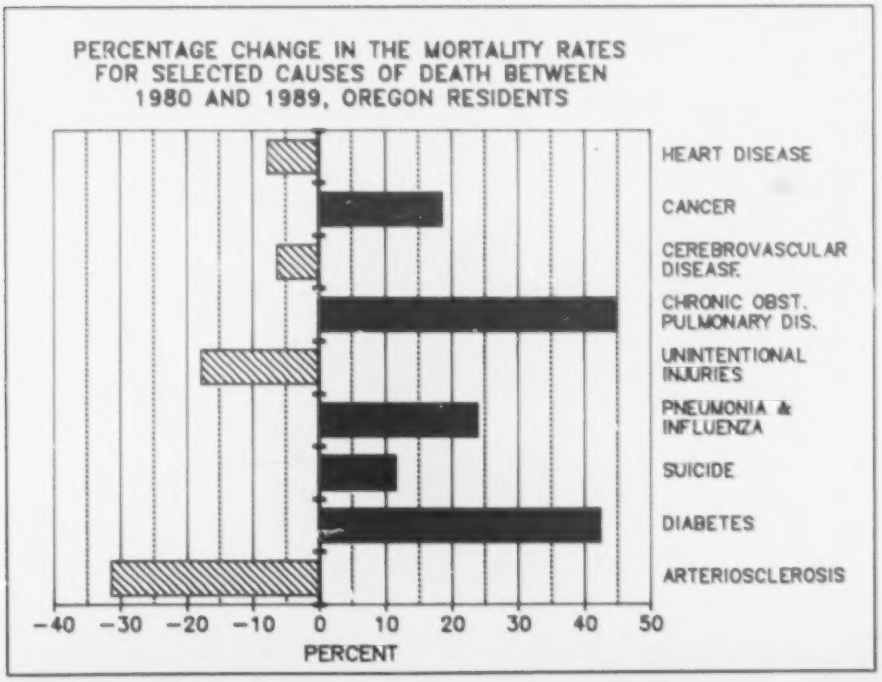
PNEUMONIA AND INFLUENZA. The pneumonia and influenza death rate rose slightly during 1989 to 33.1 per 100,000 population, the highest since 1976. This is the sixth leading cause of death overall, but the fifth leading cause among persons 65 or older. Typically, the pneumonia and influenza mortality rate is higher for females than males, and this was true during 1989, when rates of 38.7 and 27.3, respectively, were recorded. Oregon's mortality rate (33.1) is 9.2 percent higher than the estimated national rate of 30.3. In recent years, residents of the eastern third of the state have experienced the highest death rates.[2] Every 9.5 hours, on the average, pneumonia or influenza claims the life of an Oregonian.

SUICIDE. A near record high 459 Oregonians committed suicide during 1989, compared to 461 in 1988. With rates of 26.2 (per 100,000 males) and 7.1 (per 100,000 females), males were nearly four times more likely to kill themselves than females. Male rates are highest in older age groups, with the rate for men 75 or older three times higher than those of their younger counterparts. Among women, the rate is usually highest during middle age, although this was not true during 1989. Guns are the most frequently chosen method (61.2 percent) of suicide, followed by poisons (23.5 percent), and hanging (8.1 percent). However, the method varies within different age and sex cohorts. As in the past, the rate for Oregon is substantially higher (30.2 percent) than that for the U.S., 16.4 for the former compared to 12.6 for the latter. Within the state, rates are significantly higher east of the Cascades.[2] An Oregonian takes his or her own life every 19.1 hours, on the average.

Males commit suicide nearly four times more frequently than do females.

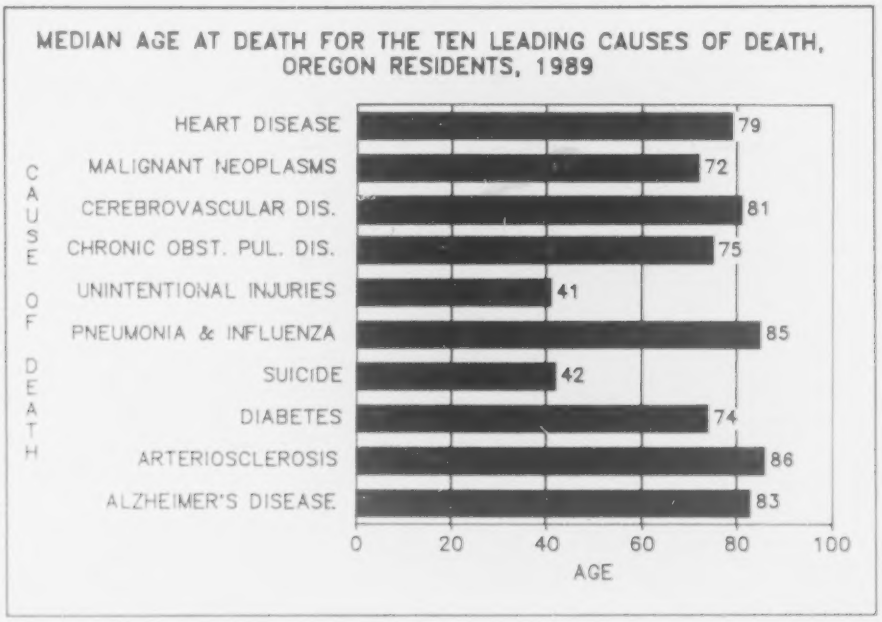
DIABETES. During the early and mid 1980s the diabetes mellitus death rate fluctuated over a narrow range of values. But in 1987, it moved sharply upward with the disease claiming a record number of Oregonians. The rate rose again in 1988 to its highest level ever, 16.0 per 100,000. In just two

Figure 4-10.



MORTALITY

Figure 4-11.



years, the diabetes death rate climbed 30.1 percent. This sharp upward movement abated during 1989 with the rate at 16.1 compared to 16.0 during 1988. The increases during 1987-1989 occurred among both sexes and all ages, with the exception of infants. Local diabetes authorities have no explanation for the rising death rate except improved physician awareness of the disease. Despite the upturn in diabetes deaths, the state's death rate remains lower than the nation's (18.8). Every 19.5 hours diabetes claims the life of an Oregonian.

The arteriosclerosis death rate fell to a record low during 1989.

ARTERIOSCLEROSIS. Continuing a decades-long trend, the Oregon death rate for arteriosclerosis fell to a record low despite an aging population. During 1989, the rate was 12.7 per 100,000 population, 31.4 percent lower than in 1980. Nonetheless, this is 64.9 percent higher than the estimated U.S. rate of 7.7. Arteriosclerosis is the tenth leading cause of death nationally, but ranks ninth in Oregon, tying with Alzheimer's disease. The rate for males was 18.4 compared to 15.0 for females. Among the ten leading causes of death, decedents with this disease have the highest median age of death. An Oregonian succumbs to arteriosclerosis every 24.7 hours. Figures do not include all deaths involving arteriosclerosis since many have been classified to more specific manifestations of cardiac and cerebral disease.

ALZHEIMER'S DISEASE. Alzheimer's disease[4] has been reported as the underlying cause of death with increasing frequency during the past decade. However, during 1989 the death rate for this disease was 12.7 per 100,000 population, essentially unchanged from the previous year. Women are nearly two-thirds again as likely to die from Alzheimer's disease than are men. The rates are 15.7 and 9.6, respectively. During 1989, nine of every ten (89.9 percent) victims were 75 or older. This is somewhat higher than

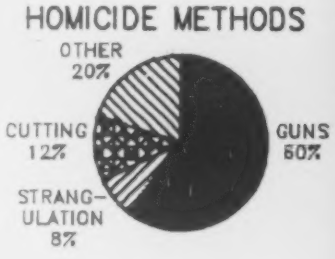
4. References to Alzheimer's disease include Alzheimer's dementia.

the figures for prior years. On the average, one Oregonian dies every day from Alzheimer's disease.

ALCOHOLISM. At 12.0 per 100,000 population, the alcoholism[5] death rate remained unchanged from the previous year. Nevertheless, the overall trend during the past decade has been a reduction in the death rate. Alcoholism is the twelfth leading cause of death overall, but ranks eighth among men. However, if intentional and unintentional injury deaths which involved alcohol were included, this category would rank substantially higher. Alcoholic liver disease accounts for 63.6 percent of the non-injury deaths. Alcoholism often leads to early death; one-half of all persons dying from alcoholism die by age 61. A natural alcohol-caused death occurs every 26.1 hours on the average. Because the Oregon Center for Health Statistics queries physicians about deaths which might involve alcohol and few other states do, the state rate is not comparable to total U.S. data.

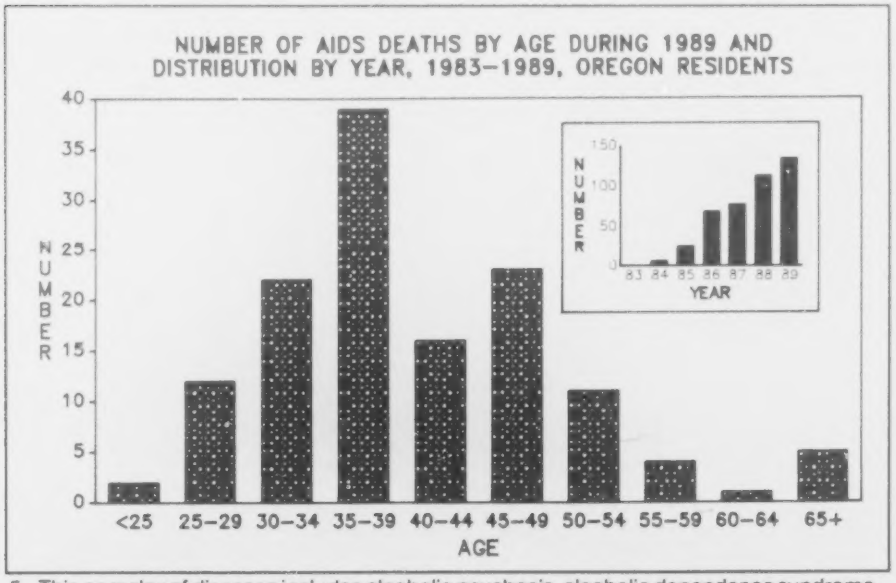
One-half of all Oregonians dying from alcoholism die by age 61.

HOMICIDE. For the fourth straight year the homicide rate declined. During 1989, homicide was the fourteenth leading cause of death. Four of the deaths resulted from legal intervention. Males were far more apt to be murdered than females; their death rate was 91.7 percent higher. Firearms were used in 59.6 percent of all homicides (Table 4-9). Oregonians have long been at less risk of being murdered than the average U.S. resident; this remained true during 1989 when the U.S. homicide death rate (9.3 per 100,000 population) was 78.8 percent higher than Oregon's (5.2). On the average, an Oregonian was murdered every 2.5 days. The median age at death was 34 years.



AIDS. Acquired immune deficiency syndrome (AIDS), the sixteenth leading cause of death, claimed 135 Oregonians during 1989, an 18.4 percent increase over 1988. Nearly all (95.6 percent) of the decedents were males;

Figure 4-12.



5. This complex of diseases includes alcoholic psychosis, alcoholic dependence syndrome, alcoholic gastritis, alcoholic cardiomyopathy, alcoholic polyneuropathy, and alcoholic liver disease.

only six were females. Just under one-half were 30-39 years old, but the range was 22-78 years of age. AIDS is the fifth leading cause of death among Oregon men 15-44 years old, but the third leading cause among 25- to 34-year-old men. Because AIDS claims predominantly young Oregonians, more years of potential life are lost (before age 70) due to AIDS than from diabetes, arteriosclerosis, and pneumonia and influenza combined. AIDS was the tenth leading cause of years of potential life lost. Every 2.7 days, on the average, an Oregonian died from AIDS.

The oldest Oregonian to die in 1989 was 108 years old. She was one of 174 centenarians who died in that year.

YEARS OF POTENTIAL LIFE LOST. Mortality rates alone do not show the complete impact upon society of certain causes of death. The deaths of young people are of a greater "cost" to society than deaths of older people in terms of lost years. The years of potential life lost (YPLL) emphasizes mortality occurring in younger age groups and assumes that each individual has a set number of "productive" years. For example, a death at 21 would result in 49 years lost when the standard is 70. The number of YPLL among the decedents are then totaled. Unless otherwise noted, references to YPLL in this report use 70 years as the standard. Figure 4-14 demonstrates the disparity between death rates and the years of potential life lost.

Figure 4-13.

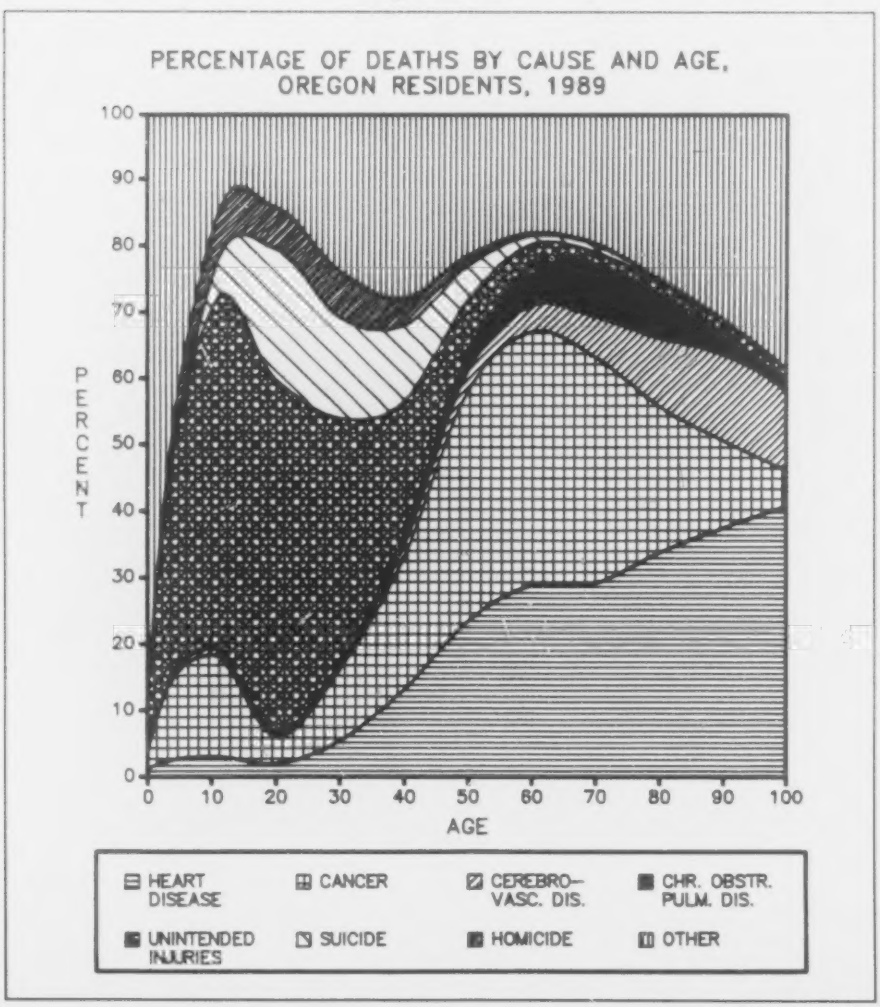
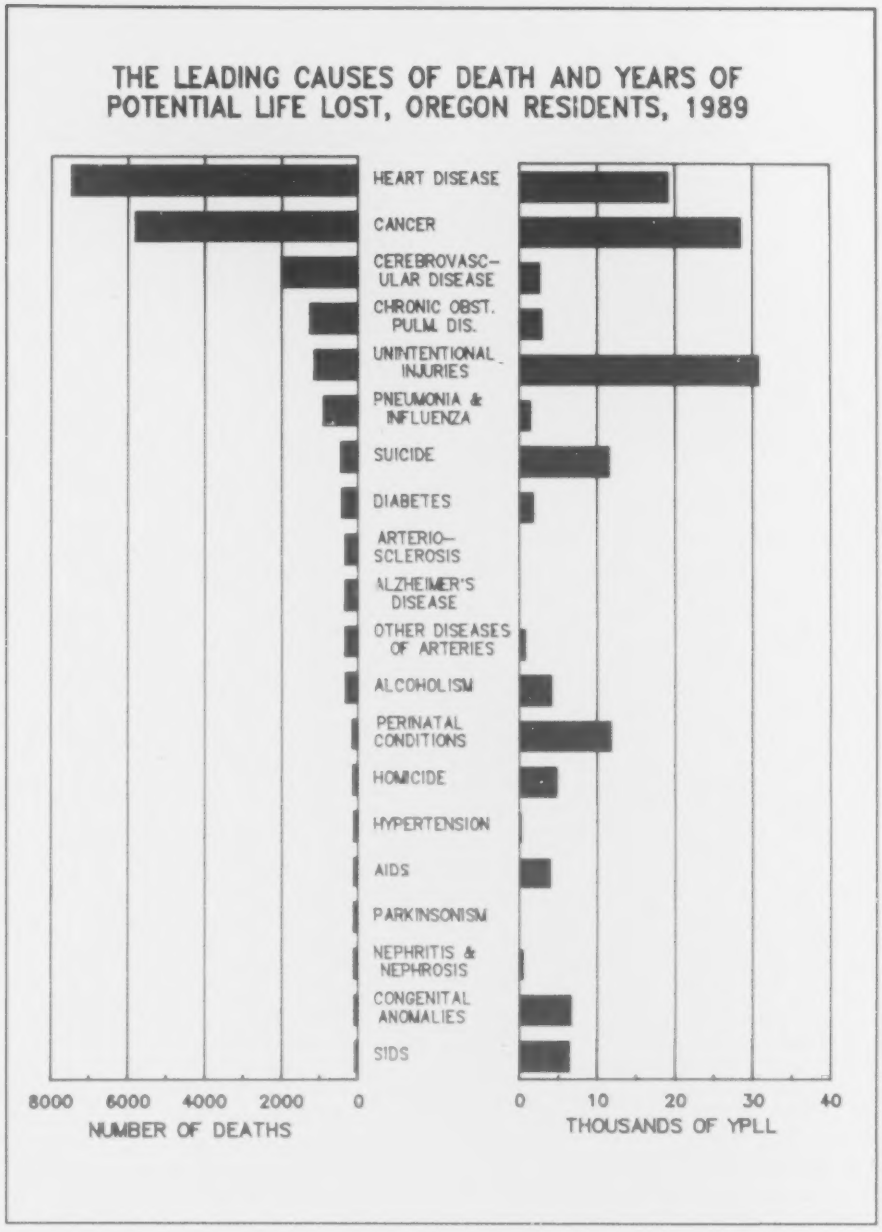


Figure 4-14.



Compared to crude death rates, both traumatic deaths and causes associated with infancy rank higher when years of potential life lost are tabulated.

TABLE 4-1. AGE-SPECIFIC DEATH RATES BY SEX, OREGON, 1940, 1950, 1960, 1970, 1975, 1980-1989

YEAR & SEX	TOTAL	AGE GROUPS					
		0 - 4	5 - 14	15-24	25-44	45-64	65+
1940 Deaths	1131.4	953.9	116.6	199.1	317.7	1322.7	7154.3
Male	1336.2	1122.6	140.5	267.4	374.5	1650.8	7831.0
Female	912.7	788.1	91.9	130.4	258.2	944.7	6395.2
1950 Deaths	912.9	588.1	61.7	148.2	242.0	1105.7	5836.7
Male	1097.2	459.9	74.1	226.0	317.4	1411.4	6619.2
Female	722.6	515.6	48.7	73.0	166.0	711.9	5025.0
1960 Deaths	949.1	566.3	42.5	107.0	210.5	1053.1	5796.9
Male	1141.2	640.3	53.3	158.4	273.3	1420.3	6854.2
Female	758.9	489.7	31.2	58.3	149.9	679.0	4838.8
1970 Deaths	933.8	411.4	42.9	134.4	184.4	1015.1	5617.3
Male	1107.6	437.8	56.5	198.9	241.7	1375.4	6893.0
Female	767.2	383.9	28.7	74.4	128.7	670.2	4607.6
1975 Deaths	876.1	364.8	32.5	118.0	164.4	925.1	5419.6
Male	1016.0	414.9	39.5	171.2	224.4	1239.7	6551.6
Female	747.2	312.5	25.3	64.9	107.4	631.0	4553.3
1980 Deaths	826.4	310.7	31.9	115.8	140.8	870.8	4977.2
Male	931.8	333.9	36.9	167.8	193.4	1157.4	6013.3
Female	724.1	286.1	26.7	63.6	87.5	602.9	4209.3
1981 Deaths	819.3	272.6	24.7	113.5	138.1	847.9	4913.6
Male	916.8	301.0	31.2	168.6	187.5	1118.5	5857.9
Female	724.7	242.8	18.0	57.9	88.1	594.5	4206.7
1982 Deaths	813.0	261.4	27.5	92.3	132.0	826.3	4850.4
Male	899.3	290.8	35.4	132.1	177.6	1053.1	5769.2
Female	729.2	230.9	19.2	51.5	86.2	614.0	4158.8
1983 Deaths	848.6	240.4	30.2	97.3	131.6	843.1	4909.3
Male	927.1	258.2	39.0	136.0	183.6	1074.5	5816.4
Female	773.0	221.8	21.0	57.9	81.8	626.9	4245.4
1984 Deaths	868.5	228.7	28.5	107.4	137.8	854.5	4956.6
Male	941.9	252.5	39.1	160.2	185.8	1083.3	5808.1
Female	797.5	204.1	17.4	53.0	89.6	639.3	4332.5
1985 Deaths	890.4	233.2	21.0	97.7	141.5	830.0	5074.7
Male	976.5	260.5	27.7	150.6	193.1	1067.4	6053.4
Female	807.2	204.8	14.0	42.9	90.0	605.9	4362.1
1986 Deaths	877.2	237.8	22.3	100.9	145.4	818.0	4854.3
Male	956.1	271.7	25.9	146.9	201.2	1052.7	5747.0
Female	800.5	201.9	18.5	53.0	89.8	595.5	4207.6
1987 Deaths	898.9	247.9	25.9	102.8	140.8	801.7	4963.0
Male	961.2	307.1	34.1	155.9	197.8	1004.4	5742.7
Female	839.0	186.3	17.3	47.2	84.1	608.8	4400.4
1988 Deaths	895.9	220.7	26.0	103.2	145.3	777.5	4942.2
Male	943.6	242.3	32.6	149.7	198.5	963.3	5685.9
Female	850.1	198.2	19.0	54.7	92.2	600.6	4410.5
1989 Deaths	884.2	221.2	24.6	88.8	150.2	710.9	4916.9
Male	940.1	256.6	31.3	131.8	204.6	913.6	5720.7
Female	830.5	184.0	17.5	43.7	95.5	516.6	4348.3

All rates per 100,000 population within specific age groups.

TABLE 4-2. LEADING CAUSES OF DEATH BY RANK ORDER FOR RESIDENT MALES AND FEMALES, OREGON, 1989

RANK	CAUSE OF DEATH	NUMBER	RATE	PERCENT
	MALES			
	TOTAL	12,864	940.3	100.0
1.	Diseases of the Heart	3,900	285.0	30.3
2.	Malignant Neoplasms	3,103	226.8	24.1
3.	Cerebrovascular Disease	811	59.3	6.3
3.	Unintentional Injuries	790	57.7	6.1
5.	Bronchitis, Emphysema, Asthma, & Other Chronic Obstructive Pulmonary Disease	705	51.5	5.5
6.	Influenza & Pneumonia	374	27.3	2.9
7.	Suicide	358	26.2	2.8
8.	Alcoholic Diseases	256	18.7	2.0
9.	Other Diseases of the Arteries	215	15.7	1.7
10.	Diabetes Mellitus	197	14.4	1.5
11.	Arteriosclerosis	142	10.4	1.1
12.	Alzheimer's Disease and Dementia	132	9.6	1.0
13.	Acquired Immunodeficiency Syndrome	129	9.4	1.0
14.	Perinatal Conditions	99	7.2	0.8
15.	Homicide and Legal Interventions	95	6.9	0.7
16.	Congenital Anomalies	78	5.7	0.6
16.	Parkinson's Disease	77	5.6	0.6
	FEMALES			
	TOTAL	11,815	830.6	100.0
1.	Diseases of the Heart	3,582	251.8	30.3
2.	Malignant Neoplasms	2,716	190.9	23.0
3.	Cerebrovascular Disease	1,195	84.0	10.1
4.	Bronchitis, Emphysema, Asthma, & Other Chronic Obstructive Pulmonary Disease	567	39.9	4.8
5.	Influenza & Pneumonia	550	38.7	4.7
6.	Unintentional Injuries	361	25.4	3.1
7.	Diabetes Mellitus	253	17.8	2.1
8.	Alzheimer's Disease and Dementia	223	15.7	1.9
9.	Arteriosclerosis	213	15.0	1.8
10.	Other Disease of Arteries	129	9.1	1.1
11.	Suicide	101	7.1	0.9
12.	Alcoholic Diseases	78	5.5	0.7
13.	Hypertension With or Without Renal Disease	75	5.3	0.6
14.	Perinatal Conditions	71	5.0	0.6
15.	Nephritis and Nephrosis	58	4.1	0.5
16.	Parkinson's Disease	53	3.7	0.4
17.	Homicide and Legal Intervention	51	3.6	0.4

TABLE 4-3. SELECTED LEADING CAUSES OF DEATHS WITH RATES, OREGON RESIDENTS, 1970-1989

YEAR	TOTAL	MAJOR CARDIOVASCULAR DIS.			MALIGNANT NEOPLASMS	CHRONIC RESPIRATORY DISEASES*	INFLUENZA AND PNEUMONIA	DIABETES MELLITUS
		DISEASES OF HEART	CEREBRO-VASCULAR DISEASE	ARTERIO-SCLEROSIS				
1970	19,530	7,158	2,429	461	3,493	520	554	312
1971	20,087	7,492	2,377	455	3,608	577	566	285
1972	20,216	7,581	2,453	433	3,594	529	599	290
1973	20,881	7,569	2,593	501	3,718	633	782	331
1974	20,320	7,441	2,408	451	3,762	609	584	272
1975	20,142	7,342	2,355	429	3,917	624	606	310
1976	20,459	7,306	2,264	445	4,065	664	800	300
1977	20,457	7,239	2,096	445	4,283	625	562	284
1978	20,870	7,249	2,079	485	4,447	698	658	297
1979	21,024	7,329	2,041	444	4,608	728	608	285
1980	21,756	7,659	2,021	486	4,625	829	704	297
1981	21,798	7,639	1,986	509	4,839	856	609	303
1982	21,594	7,601	1,901	482	4,859	912	609	297
1983	22,361	7,910	2,021	470	4,943	971	634	329
1984	23,101	8,010	1,919	431	5,387	957	725	343
1985	23,824	8,192	2,000	432	5,410	1,097	838	317
1986	23,328	7,788	1,926	417	5,272	1,090	742	328
1987	24,181	7,936	1,958	440	5,594	1,233	743	395
1988	24,557	7,662	2,010	378	5,801	1,203	900	439
1989	24,679	7,482	2,006	355	5,819	1,272	924	450
1970	933.8	342.3	116.1	22.0	167.0	24.9	26.5	14.9
1971	937.3	349.6	110.9	21.2	168.4	26.9	26.4	13.3
1972	926.0	347.2	112.4	19.8	164.6	24.2	27.4	13.3
1973	938.5	340.2	116.5	22.5	167.1	28.5	35.1	14.9
1974	896.7	328.4	106.3	19.9	166.0	26.9	25.8	12.0
1975	871.6	319.4	102.4	18.7	170.4	27.1	26.4	13.5
1976	873.7	312.0	96.7	19.0	173.6	28.4	34.2	12.8
1977	853.8	302.1	87.5	18.6	178.7	26.1	23.5	11.9
1978	844.3	293.2	84.1	19.6	179.9	28.2	26.6	12.0
1979	826.4	288.1	80.2	17.5	181.1	28.6	23.9	11.2
1980	826.2	290.9	76.8	18.5	175.7	31.5	26.7	11.3
1981	819.3	287.1	74.6	19.1	181.9	32.2	22.9	11.4
1982	813.0	286.2	71.6	18.1	182.9	34.3	22.9	11.2
1983	848.6	300.2	76.7	17.8	187.6	36.9	24.1	12.5
1984	868.5	301.1	72.1	16.2	202.5	36.0	27.3	12.9
1985	890.4	306.2	74.7	16.1	202.2	41.0	31.3	11.8
1986	877.2	292.8	72.4	15.7	198.2	41.0	27.9	12.3
1987	898.9	295.0	72.8	16.4	208.0	45.8	27.6	14.7
1988	895.9	279.5	73.3	13.8	211.6	43.9	32.8	16.0
1989	884.2	268.1	71.9	12.7	208.5	45.6	33.1	16.1

All rates per 100,000 population.

* Includes Bronchitis, Emphysema, Asthma, and Chronic Obstructive Pulmonary Disease (ICD 490-496).

TABLE 4-3. SELECTED LEADING CAUSES OF DEATHS WITH RATES, OREGON RESIDENTS, 1970-1989, CONTINUED

YEAR	CIRRHOSIS OF LIVER	CERTAIN CAUSES IN EARLY INFANCY	CONGENITAL ANOMALIES	SIDS	AIDS	EXTERNAL CAUSES		
						Unintentional Injuries	Suicide	Homicide
1970	288	298	149	+	-	1,347	303	93
1971	338	314	175	+	-	1,314	319	81
1972	348	272	158	+	-	1,379	301	116
1973	367	240	154	+	-	1,307	364	112
1974	365	228	160	+	-	1,354	362	123
1975	331	233	153	+	-	1,204	361	130
1976	348	177	157	+	-	1,257	351	96
1977	377	194	168	84	-	1,324	399	125
1978	312	190	168	118	-	1,387	385	125
1979	352	195	155	94	-	1,367	351	113
1980	349	219	160	132	-	1,319	388	145
1981	370	214	140	117	-	1,285	398	118
1982	299	168	165	104	-	1,064	396	146
1983	301	148	156	97	2	1,156	417	112
1984	318	136	152	109	6	1,185	423	135
1985	283	135	154	107	24	1,207	417	123
1986	308	119	142	121	70	1,184	450	181
1987	253	160	142	115	78	1,185	400	164
1988	289	128	133	99	114	1,190	461	152
1989	263	170	121	93	135	1,151	459	146
1970	13.8	14.2	7.1	+	0.0	64.4	14.5	4.4
1971	15.8	14.7	8.2	+	0.0	61.3	14.9	3.8
1972	15.9	12.5	7.2	+	0.0	63.2	13.8	5.3
1973	16.5	10.8	6.9	+	0.0	58.7	16.4	5.0
1974	16.1	10.1	7.1	+	0.0	59.8	16.0	5.4
1975	14.4	10.1	6.7	+	0.0	52.4	15.7	5.7
1976	14.9	7.6	6.7	+	0.0	53.7	15.0	5.1
1977	15.7	8.1	7.0	3.5	0.0	55.3	16.7	5.2
1978	12.6	7.7	6.8	4.8	0.0	56.1	15.6	5.1
1979	13.8	7.7	6.1	3.7	0.0	53.7	13.8	4.4
1980	13.3	8.3	6.1	5.0	0.0	50.1	14.7	5.5
1981	13.9	8.0	5.3	4.4	0.0	48.3	15.0	4.4
1982	11.3	6.3	6.2	3.9	0.0	40.1	14.9	5.5
1983	11.4	5.6	5.9	3.7	0.0	43.9	15.8	4.3
1984	12.0	5.1	5.7	4.1	0.0	44.5	15.9	5.1
1985	10.6	5.0	5.8	4.0	0.9	45.1	15.6	4.6
1986	11.6	4.5	5.3	4.5	2.6	44.5	16.9	6.8
1987	9.4	5.9	5.3	4.3	2.9	44.1	14.9	6.1
1988	10.5	4.7	4.9	3.6	4.2	43.4	16.8	5.5
1989	9.4	6.1	4.3	3.3	4.8	41.2	16.4	5.2

All rates per 100,000 population.
+ Unknown prior to 1977; there was no ICD code for SIDS.

TABLE 4-4. THE FIVE PRINCIPAL CAUSES OF DEATH BY AGE GROUPS, OREGON, 1989

AGE AND CAUSE OF DEATH		BOTH SEXES		RATE*	
		Number	Percent	Male	Female
ALL AGES	ALL CAUSES	24,679	100.0	940.1	830.5
1.	Diseases of the Heart	7,482	30.3	285.0	251.8
2.	Malignant Neoplasms	5,819	23.6	226.8	190.9
3.	Cerebrovascular Diseases	2,006	8.1	59.3	84.0
4.	Bronchitis, Emphysema, Asthma & Chronic Obstructive Pulmonary Diseases	1,272	5.2	51.5	39.9
5.	Unintentional Injuries	1,151	4.7	57.7	25.4
UNDER 1 YEAR**	ALL CAUSES	364	100.0	975.3	721.3
1.	Sudden Infant Death Syndrome	93	25.5	235.9	198.5
2.	Congenital Anomalies	77	21.2	254.0	101.7
3.	Respiratory Distress Syndrome	37	10.2	108.9	62.9
4.	Immaturity	30	8.2	86.2	53.2
5.	Complications of Pregnancy & Delivery	23	6.3	72.6	33.9
1 - 4 YEARS	ALL CAUSES	67	100.0	52.7	34.9
1.	Unintentional Injury	26	38.8	24.4	9.4
2.	Congenital Anomalies	9	13.4	3.9	8.1
3.	Malignant Neoplasms	8	11.9	6.4	4.0
4.	Homicide	5	7.5	2.6	4.0
5.	Perinatal Conditions	4	6.0	5.1	0.0
5 - 14 YEARS	ALL CAUSES	98	100.0	31.3	17.5
1.	Unintentional Injury	50	51.0	16.6	8.3
2.	Malignant Neoplasms	15	15.3	3.9	3.6
3.	Homicide & Legal Intervention	7	7.1	1.5	2.1
4.	Suicide	4	4.1	2.0	0.0
5.	Congenital Anomalies	3	3.1	.5	1.0
5.	Diseases of the Heart	3	3.1	1.0	.5

* Rates per 100,000 population except where noted.
** Rate per 100,000 live births.

TABLE 4-4. THE FIVE PRINCIPAL CAUSES OF DEATH BY AGE GROUPS 1989, CONTINUED

AGE AND CAUSE OF DEATH	BOTH SEXES		RATE*	
	Number	Percent	Male	Female
15 - 24 YEARS ALL CAUSES	366	100.0	131.8	43.7
1. Unintentional Injury	194	53.0	69.2	23.8
2. Suicide	72	19.7	29.4	5.0
3. Homicide & Legal Intervention	23	6.3	7.1	4.0
4. Malignant Neoplasms	15	4.1	5.7	1.5
5. Diseases of the Heart	7	1.9	2.4	1.0
25 - 44 YEARS ALL CAUSES	1,348	100.0	206.4	95.5
1. Unintentional Injury	363	26.9	61.2	20.1
2. Malignant Neoplasm	218	16.2	21.8	27.0
3. Suicide	176	13.1	29.2	10.3
4. Diseases of the Heart	134	9.9	22.7	7.4
5. AIDS	89	6.6	19.3	0.7
45 - 64 YEARS ALL CAUSES	3,619	100.0	913.6	516.6
1. Malignant Neoplasms	1,341	37.1	283.8	243.9
2. Diseases of the Heart	987	27.3	293.0	98.9
3. Bronchitis, Emphysema, Asthma & Chronic Obstructive Pulmonary Disease	174	4.8	34.9	33.5
4. Unintentional Injury	173	4.8	52.6	16.2
5. Alcoholic Disease	144	4.0	46.2	11.2
65 YEARS & OVER ALL CAUSES	18,817	100.0	5,720.7	4,348.3
1. Diseases of the Heart	6,346	33.7	1,929.4	1,466.4
2. Malignant Neoplasms	4,221	22.4	1,434.3	868.6
3. Cerebrovascular Disease	1,850	9.8	451.0	506.3
4. Bronchitis, Emphysema, Asthma & Chronic Obstructive Pulmonary Disease	1,082	5.8	382.8	211.9
5. Influenza & Pneumonia	869	4.6	217.6	233.8

TABLE 4-5. DEATHS BY MARITAL STATUS, SEX, AGE GROUPS, OREGON RESIDENTS, 1989

MARITAL STATUS AND SEX	TOTAL	AGE AT DEATH							
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49
TOTAL	24,679	529	173	193	236	307	367	438	465
MALE	12,864	320	124	154	167	216	249	288	296
FEMALE	11,815	209	49	39	69	91	118	150	169
SINGLE	2,255	529	165	153	130	112	97	59	49
MALE	1,467	320	118	128	103	95	72	39	42
FEMALE	788	209	47	25	27	17	25	20	7
MARRIED	10,944	-	8	34	77	127	167	232	275
MALE	7,585	-	6	22	46	78	102	153	162
FEMALE	3,359	-	2	12	31	49	65	79	113
WIDOWED	8,813	-	-	1	1	1	8	8	11
MALE	2,273	-	-	1	1	-	3	3	3
FEMALE	6,540	-	-	-	-	1	5	5	8
DIVORCED	2,574	-	-	3	25	66	93	136	123
MALE	1,459	-	-	2	14	42	71	90	82
FEMALE	1,115	-	-	1	11	24	22	46	41
UNKNOWN	93	-	-	2	3	1	2	3	7
MALE	80	-	-	1	3	1	1	3	7
FEMALE	13	-	-	1	-	-	1	-	-

	AGE AT DEATH							
	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90+
TOTAL	585	972	1,597	2,488	3,088	3,648	3,636	3,024	2,933
MALE	376	602	1,002	1,482	1,833	1,953	1,756	1,204	842
FEMALE	209	370	595	1,006	1,255	1,695	1,880	1,820	2,091
SINGLE	43	56	67	101	109	154	155	137	139
MALE	30	43	55	66	72	95	82	60	47
FEMALE	13	13	12	35	37	59	73	77	92
MARRIED	364	630	1,046	1,576	1,825	1,895	1,508	816	364
MALE	233	400	689	1,045	1,281	1,351	1,097	629	291
FEMALE	131	230	357	531	544	544	411	187	73
WIDOWED	21	84	189	429	822	1,289	1,741	1,903	2,305
MALE	9	28	65	124	294	357	458	447	480
FEMALE	12	56	124	305	528	932	1,283	1,456	1,825
DIVORCED	147	194	287	376	320	302	222	159	121
MALE	95	124	185	241	176	143	110	61	23
FEMALE	52	70	102	135	144	159	112	98	98
UNKNOWN	10	8	8	6	12	8	10	9	4
MALE	9	7	8	6	10	7	9	7	1
FEMALE	1	1	-	-	2	1	1	2	3

TABLE 4-6. NUMBER OF DEATHS FROM SELECTED CAUSES BY AGE AND SEX, OREGON RESIDENTS, 1989

9TH REV. ICD	CAUSE OF DEATH	TOTAL	AGE GROUPS										
			< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
TOTAL		24,679	364	67	98	366	543	805	1,050	2,569	5,576	7,284	5,957
	MALE	12,864	215	41	64	278	383	537	672	1,604	3,315	3,709	2,046
	FEMALE	11,815	149	26	34	88	160	268	378	965	2,261	3,575	3,911
	I. INFECTIVE AND PARASITIC DISEASES	340	3	2	2	6	37	66	43	34	41	62	44
	MALE	227	2	1	1	5	35	60	38	22	20	29	14
	FEMALE	113	1	1	1	1	2	6	5	12	21	33	30
010-018, 137	TUBERCULOSIS, ALL FORMS	18	-	-	-	-	-	-	-	4	4	7	3
	MALE	6	-	-	-	-	-	-	-	2	-	4	-
	FEMALE	12	-	-	-	-	-	-	-	2	4	3	3
038	SEPTICEMIA	92	-	-	-	1	-	2	2	13	15	35	24
	MALE	43	-	-	-	1	-	2	2	8	6	14	10
	FEMALE	49	-	-	-	-	-	-	-	5	9	21	14
042-044	AIDS	135	-	-	-	2	34	55	34	5	4	1	-
	MALE	129	-	-	-	2	33	53	33	5	3	-	-
	FEMALE	6	-	-	-	-	1	2	1	-	1	1	-
070	VIRAL HEPATITIS	25	-	-	-	1	2	4	4	3	5	4	2
	MALE	13	-	-	-	-	2	2	2	1	4	2	-
	FEMALE	12	-	-	-	1	-	2	2	2	1	2	2
RESIDUAL OF 001-139	OTHER INFECTIVE & PARASITIC DISEASES	70	3	2	2	2	1	5	3	9	13	15	15
	MALE	36	2	1	1	2	-	3	1	6	7	9	4
	FEMALE	34	1	1	1	-	1	2	2	3	6	6	11
	II. NEOPLASMS	5,896	1	8	15	15	58	164	364	988	1,917	1,637	729
	MALE	3,135	-	5	8	12	28	71	178	535	1,088	889	321
	FEMALE	2,761	1	3	7	3	30	93	186	453	829	748	408
140-208	MALIGNANT NEOPLASMS	5,819	1	8	15	15	58	160	362	979	1,899	1,608	714
	MALE	3,103	-	5	8	12	28	69	177	530	1,077	879	318
	FEMALE	2,716	1	3	7	3	30	91	185	449	822	729	396
140-149	OF BUCCAL CAVITY & PHARYNX	84	-	-	-	1	-	2	4	24	26	20	7
	MALE	51	-	-	-	1	-	1	4	15	19	9	2
	FEMALE	33	-	-	-	-	-	1	-	9	7	11	5
150-159	OF DIGESTIVE ORGANS & PERITONEUM	1,342	-	-	-	-	12	23	75	203	406	409	214
	MALE	721	-	-	-	-	6	14	55	132	244	200	70
	FEMALE	621	-	-	-	-	6	9	20	71	162	209	144

TABLE 4-6. NUMBER OF DEATHS FROM SELECTED CAUSES BY AGE AND SEX, OREGON RESIDENTS, 1989-Continued

9TH REV. ICD	CAUSE OF DEATH	TOTAL	AGE GROUPS									
			< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
150	ESOPHAGUS	102	-	-	-	-	1	1	7	26	37	25	5
	MALE.....	81	-	-	-	-	1	1	5	22	29	21	2
	FEMALE...	21	-	-	-	-	-	-	2	4	8	4	3
151	STOMACH	132	-	-	-	-	1	1	8	20	46	31	25
	MALE.....	80	-	-	-	-	1	1	6	12	35	17	8
	FEMALE...	52	-	-	-	-	-	-	2	8	11	14	17
153	LARGE INTESTINE (EXC. RECTUM)	513	-	-	-	-	4	4	20	77	136	173	99
	MALE.....	245	-	-	-	-	2	1	16	45	82	76	23
	FEMALE...	268	-	-	-	-	2	3	4	32	54	97	76
154	RECTUM	105	-	-	-	-	1	5	6	9	37	28	19
	MALE.....	56	-	-	-	-	1	3	3	6	23	15	5
	FEMALE...	49	-	-	-	-	-	2	3	3	14	13	14
157	PANCREAS	326	-	-	-	-	1	5	24	49	104	99	44
	MALE.....	170	-	-	-	-	-	2	16	31	53	47	21
	FEMALE...	156	-	-	-	-	1	3	8	18	51	52	23
160-165	OF RESPIRATORY/INTRATHORACIC ORGAN	1,794	-	-	-	1	3	27	111	385	703	462	102
	MALE.....	1,102	-	-	-	1	2	14	61	224	438	290	72
	FEMALE...	692	-	-	-	-	1	13	50	161	265	172	30
162.2-.9	BRONCHUS AND LUNG	1,727	-	-	-	-	3	23	110	373	679	445	94
	MALE.....	1,061	-	-	-	-	2	13	60	218	425	278	65
	FEMALE...	666	-	-	-	-	1	10	50	155	254	167	29
170-175	OF BONE, CONNECTIVE TISSUE, SKIN AND BREAST	584	-	-	4	6	12	51	66	105	158	110	72
	MALE.....	103	-	-	4	5	4	17	11	20	20	14	8
	FEMALE...	481	-	-	-	1	8	34	55	85	138	96	64
172	MALIGNANT MELANOMA	79	-	-	-	1	5	19	10	14	15	6	9
	MALE.....	48	-	-	-	1	2	14	6	10	11	3	1
	FEMALE...	31	-	-	-	-	3	5	4	4	4	3	8
173	OTHER SKIN	18	-	-	-	-	-	-	-	5	1	6	6
	MALE.....	15	-	-	-	-	-	-	-	4	1	5	5
	FEMALE...	3	-	-	-	-	-	-	-	1	-	1	1
174-175	BREAST	443	-	-	-	-	5	29	51	81	132	91	54
	MALE.....	8	-	-	-	-	-	-	1	2	2	2	1
	FEMALE...	435	-	-	-	-	5	29	50	79	130	89	53
179-187	OF GENITAL ORGANS	699	-	-	-	1	6	19	33	80	202	229	129
	MALE.....	414	-	-	-	-	2	3	4	34	111	163	97
	FEMALE...	285	-	-	-	1	4	16	29	46	91	66	32

TABLE 4-6. NUMBER OF DEATHS FROM SELECTED CAUSES BY AGE AND SEX, OREGON RESIDENTS, 1989-Continued

9TH REV. ICD	CAUSE OF DEATH	TOTAL	AGE GROUPS										
			< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
179-182	CERVIX & UTERUS	115	-	-	-	1	3	9	17	16	34	21	14
	FEMALE...	115	-	-	-	1	3	9	17	16	34	21	14
183.0	OVARY	160	-	-	-	-	1	7	12	28	56	42	14
	FEMALE...	160	-	-	-	-	1	7	12	28	56	42	14
185	PROSTATE	404	-	-	-	-	-	-	4	33	109	161	97
	MALE.....	404	-	-	-	-	-	-	4	33	109	161	97
188-189	OF URINARY ORGANS	222	-	-	-	-	2	3	14	26	73	70	34
	MALE.....	138	-	-	-	-	-	1	10	15	52	44	16
	FEMALE...	84	-	-	-	-	2	2	4	11	21	26	18
188	BLADDER	114	-	-	-	-	-	-	-	5	36	46	27
	MALE.....	79	-	-	-	-	-	-	-	3	27	33	16
	FEMALE...	35	-	-	-	-	-	-	-	2	9	13	11
190-199	OF OTHER & UNSPECIFIED SITES	524	-	2	3	2	11	25	35	84	166	125	71
	MALE.....	274	-	1	1	2	7	13	16	53	87	71	23
	FEMALE...	250	-	1	2	-	4	12	19	31	79	54	48
191	BRAIN	175	-	-	1	1	6	18	16	36	52	37	8
	MALE.....	99	-	-	1	1	4	9	8	25	27	21	3
	FEMALE...	76	-	-	-	-	2	9	8	11	25	16	5
200-208	OF LYMPHATIC AND HEMATOPOIETIC TISSUES	570	1	6	8	4	12	10	24	72	165	183	85
	MALE.....	300	-	4	3	3	7	6	16	37	106	88	30
	FEMALE...	270	1	2	5	1	5	4	8	35	59	95	55
204-208	LEUKEMIA	219	1	6	7	1	10	4	7	21	65	59	38
	MALE.....	118	-	4	3	1	6	2	4	7	43	33	15
	FEMALE...	101	1	2	4	-	4	2	3	14	22	26	23
204	LYMPHATIC LEUKEMIA	68	-	4	5	1	3	-	2	5	19	14	15
	MALE.....	35	-	2	2	1	2	-	1	3	13	5	6
	FEMALE...	33	-	2	3	-	1	-	1	2	6	9	9
210-229	BENIGN NEOPLASMS	24	-	-	-	-	-	2	1	4	5	10	2
	MALE.....	11	-	-	-	-	-	1	1	2	3	3	1
	FEMALE...	13	-	-	-	-	-	1	-	2	2	7	1
230-239	IN SITU, UNCERTAIN BEHAVIOR & UNSPECIFIED NATURE NEOPLASMS	53	-	-	-	-	-	2	1	5	13	19	13
	MALE.....	21	-	-	-	-	-	1	-	3	8	7	2
	FEMALE...	32	-	-	-	-	-	1	1	2	5	12	11

TABLE 4-6. NUMBER OF DEATHS FROM SELECTED CAUSES BY AGE AND SEX, OREGON RESIDENTS, 1989-Continued

9TH REV. ICD	CAUSE OF DEATH	TOTAL	AGE GROUPS										
			< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
	III. ENDOCRINE, NUTRITIONAL, AND METABOLIC DISEASES	625	4	1	4	5	14	23	30	77	163	179	125
	MALE.....	282	-	1	2	3	9	15	20	47	83	66	36
	FEMALE...	343	4	-	2	2	5	8	10	30	80	113	89
250	DIABETES MELLITUS	450	-	-	-	1	5	15	21	60	126	137	85
	MALE.....	197	-	-	-	1	2	9	13	37	64	50	21
	FEMALE...	253	-	-	-	-	3	6	8	23	62	87	64
240-279	OTHER ENDOCRINE, NUTRITIONAL, AND METABOLIC DISEASES	175	4	1	4	4	9	8	9	17	37	42	40
	MALE.....	85	-	1	2	2	7	6	7	10	19	16	15
	FEMALE...	90	4	-	2	2	2	2	2	7	18	26	25
	IV. DISEASES OF THE BLOOD AND METABOLIC DISEASES	93	-	-	1	1	3	3	2	6	28	30	19
	MALE.....	46	-	-	1	1	1	1	2	3	14	15	8
	FEMALE...	47	-	-	-	-	2	2	-	3	14	15	11
280-285	ANEMIAS	32	-	-	1	1	2	1	-	2	6	10	9
	MALE.....	14	-	-	1	1	-	1	-	1	2	4	4
	FEMALE...	18	-	-	-	-	2	-	-	1	4	6	5
RESIDUAL OF 280-289	OTHER DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	61	-	-	-	-	1	2	2	4	22	20	10
	MALE.....	32	-	-	-	-	1	-	2	2	12	11	4
	FEMALE...	29	-	-	-	-	-	2	-	2	10	9	6
	V. MENTAL DISORDERS	570	1	-	-	4	9	24	31	41	63	155	242
	MALE.....	264	-	-	-	3	8	15	26	25	43	71	73
	FEMALE...	306	1	-	-	1	1	9	5	16	20	84	169
290.1	ALZHEIMER'S DEMENTIA	88	-	-	-	-	-	-	-	1	4	43	40
	MALE.....	26	-	-	-	-	-	-	-	-	-	15	11
	FEMALE...	62	-	-	-	-	-	-	-	1	4	28	29
291	ALCOHOLIC PSYCHOSES	5	-	-	-	-	1	-	1	1	1	1	-
	MALE.....	4	-	-	-	-	1	-	1	1	1	-	-
	FEMALE...	1	-	-	-	-	-	-	-	-	-	1	-
303	ALCOHOLISM	101	-	-	-	1	1	15	25	26	23	8	2
	MALE.....	76	-	-	-	1	1	10	23	18	16	6	1
	FEMALE...	25	-	-	-	-	-	5	2	8	7	2	1

TABLE 4-6. NUMBER OF DEATHS FROM SELECTED CAUSES BY AGE AND SEX, OREGON RESIDENTS, 1989-Continued

9TH REV. ICD	CAUSE OF DEATH		TOTAL	AGE GROUPS										
				< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
304	DRUG DEPENDENCE		13	-	-	-	1	5	5	1	-	1	-	-
		MALE.....	11	-	-	-	-	5	4	1	-	1	-	-
		FEMALE...	2	-	-	-	1	-	1	-	-	-	-	-
305	NON-DEPENDENT DRUG ABUSE		50	1	-	-	1	2	2	2	10	19	9	4
		MALE.....	31	-	-	-	1	1	1	1	5	15	6	1
		FEMALE...	19	1	-	-	-	1	1	1	5	4	3	3
RESIDUAL OF 290-319	OTHER MENTAL DISORDERS		313	-	-	-	1	-	2	2	3	15	94	196
		MALE.....	116	-	-	-	1	-	-	-	1	10	44	60
		FEMALE...	197	-	-	-	-	-	2	2	2	5	50	136
	VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS		617	5	4	7	13	15	19	7	40	109	230	170
		MALE.....	311	3	1	5	11	11	10	2	19	65	122	62
		FEMALE...	306	2	3	-	2	4	9	5	21	44	108	108
320-322	MENINGITIS		7	-	-	-	-	1	1	-	2	2	-	1
		MALE.....	3	-	-	-	-	1	-	-	1	1	-	-
		FEMALE...	4	-	-	-	-	-	1	-	1	1	-	1
331.0	ALZHEIMER'S DISEASE		267	-	-	-	-	-	-	-	2	29	120	116
		MALE.....	106	-	-	-	-	-	-	-	2	13	57	34
		FEMALE...	161	-	-	-	-	-	-	-	-	16	63	82
332	PARKINSON'S DISEASE		130	-	-	-	-	-	-	-	5	11	74	40
		MALE.....	77	-	-	-	-	-	-	-	2	7	45	23
		FEMALE...	53	-	-	-	-	-	-	-	3	4	29	17
345	EPILEPSY		27	-	1	-	2	6	6	-	2	6	4	-
		MALE.....	21	-	1	-	2	5	3	-	1	5	4	-
		FEMALE...	6	-	-	-	-	1	3	-	1	1	-	-
RESIDUAL OF 320-389	OTHER DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS		186	5	3	5	11	8	12	7	29	61	32	13
		MALE.....	104	3	-	5	9	5	7	2	13	39	16	5
		FEMALE...	82	2	3	-	2	3	5	5	16	22	16	8
	VII. DISEASES OF THE CIRCULATORY SYSTEM		10,383	4	1	4	9	37	128	294	894	2,177	3,493	3,342
		MALE.....	5,166	2	1	3	5	23	95	209	649	1,358	1,755	1,066
		FEMALE...	5,217	2	-	1	4	14	33	85	245	819	1,738	2,276

TABLE 4-6. NUMBER OF DEATHS FROM SELECTED CAUSES BY AGE AND SEX, OREGON RESIDENTS, 1989-Continued

9TH REV. ICD	CAUSE OF DEATH	TOTAL	AGE GROUPS										
			< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
390-448	MAJOR CARDIOVASCULAR DISEASES	10,338	4	1	4	9	36	128	293	889	2,162	3,481	3,331
	MALE.....	5,143	2	1	3	5	22	95	209	645	1,349	1,751	1,061
	FEMALE...	5,195	2	-	1	4	14	33	84	244	813	1,730	2,270
390-398, 402, 404-429	DISEASES OF THE HEART	7,494	4	1	3	7	29	106	246	742	1,633	2,461	2,262
	MALE.....	3,911	2	1	2	5	21	81	182	549	1,058	1,259	751
	FEMALE...	3,583	2	-	1	2	8	25	64	193	575	1,202	1,511
390-398	RHEUMATIC FEVER & CHRONIC RHEUMATIC HEART DISEASE	87	-	-	-	1	1	5	3	11	20	33	13
	MALE.....	32	-	-	-	-	-	-	1	8	10	9	4
	FEMALE...	55	-	-	-	1	1	5	2	3	10	24	9
402,404	HYPERTENSIVE HEART DISEASE WITH/WITHOUT RENAL DISEASE	218	-	-	-	-	-	3	5	16	32	73	89
	MALE.....	70	-	-	-	-	-	2	3	9	12	25	19
	FEMALE...	148	-	-	-	-	-	1	2	7	20	48	70
410-414	ISCHEMIC HEART DISEASE	5,442	-	-	-	1	15	73	200	567	1,252	1,803	1,531
	MALE.....	2,972	-	-	-	1	12	65	154	436	829	953	522
	FEMALE...	2,470	-	-	-	-	3	8	46	131	423	850	1,009
410	MYOCARDIAL INFARCTION	2,096	-	-	-	1	3	18	68	236	548	762	460
	MALE.....	1,158	-	-	-	1	3	14	52	182	348	387	171
	FEMALE...	938	-	-	-	-	-	4	16	54	200	375	289
411	OTHER ACUTE AND SUBACUTE	9	-	-	-	-	-	-	1	4	1	1	2
	MALE.....	3	-	-	-	-	-	-	1	1	-	-	1
	FEMALE...	6	-	-	-	-	-	-	-	3	1	1	1
412-414	CHRONIC ISCHEMIC HEART DISEASE	3,337	-	-	-	-	12	55	131	327	703	1,040	1,069
	MALE.....	1,811	-	-	-	-	9	51	101	253	481	566	350
	FEMALE...	1,526	-	-	-	-	3	4	30	74	222	474	719
415-429	ALL OTHER FORMS	1,747	4	1	3	5	13	25	38	148	329	552	629
	MALE.....	837	2	1	2	4	9	14	24	96	207	272	206
	FEMALE...	910	2	-	1	1	4	11	14	52	122	280	423
401,403	HYPERTENSION	139	-	-	-	-	1	2	5	5	30	56	40
	MALE.....	64	-	-	-	-	-	2	5	5	14	23	15
	FEMALE...	75	-	-	-	-	1	-	-	-	16	33	25
430-438	CEREBROVASCULAR DISEASE	2,006	-	-	1	2	3	14	32	104	339	749	762
	MALE.....	811	-	-	1	-	1	9	19	66	170	342	203
	FEMALE...	1,195	-	-	-	2	2	5	13	38	169	407	559

TABLE 4-6. NUMBER OF DEATHS FROM SELECTED CAUSES BY AGE AND SEX, OREGON RESIDENTS, 1989-Continued

9TH REV. ICD	CAUSE OF DEATH	TOTAL	AGE GROUPS										
			< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
430	SUBARACHNOID HEMORRHAGE	79	-	-	1	2	1	6	11	16	22	14	6
	MALE.....	31	-	-	1	-	-	2	7	6	7	8	-
	FEMALE...	48	-	-	-	2	1	4	4	10	15	6	6
431-432	INTRACEREBRAL & INTRACRANIAL HEMORRHAGES	229	-	-	-	-	1	7	13	29	56	82	41
	MALE.....	96	-	-	-	-	1	6	5	15	21	37	11
	FEMALE...	133	-	-	-	-	-	1	8	14	35	45	30
434	CEREBRAL THROMBOSIS & EMBOLISM	314	-	-	-	-	1	1	2	15	46	120	129
	MALE.....	121	-	-	-	-	-	1	2	11	22	47	38
	FEMALE...	193	-	-	-	-	1	-	-	4	24	73	91
436	ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE	1,115	-	-	-	-	-	-	3	38	171	443	460
	MALE.....	447	-	-	-	-	-	-	2	29	93	204	119
	FEMALE...	668	-	-	-	-	-	-	1	9	78	239	341
437	GENERALIZED ISCHEMIC CEREBROVASCULAR DISEASE	143	-	-	-	-	-	-	-	2	18	43	80
	MALE.....	53	-	-	-	-	-	-	-	2	7	21	23
	FEMALE...	90	-	-	-	-	-	-	-	-	11	22	57
440	ARTERIOSCLEROSIS	355	-	-	-	-	1	-	1	12	44	101	196
	MALE.....	142	-	-	-	-	-	-	1	9	23	52	57
	FEMALE...	213	-	-	-	-	1	-	-	3	21	49	139
441-448	OTHER DISEASES OF ARTERIES, ARTERIOLES & CAPILLARIES	344	-	-	-	-	2	6	9	26	116	114	71
	MALE.....	215	-	-	-	-	-	3	2	16	84	75	35
	FEMALE...	129	-	-	-	-	2	3	7	10	32	39	36
451-453	VENOUS THROMBOSIS & EMBOLISM	18	-	-	-	-	-	-	-	3	10	3	2
	MALE.....	7	-	-	-	-	-	-	-	2	5	-	-
	FEMALE...	11	-	-	-	-	-	-	-	1	5	3	2
RESIDUAL OF 390-459	OTHER DISEASES OF THE CIRCULATORY SYSTEM	27	-	-	-	-	1	-	1	2	5	9	9
	MALE.....	16	-	-	-	-	1	-	-	2	4	4	5
	FEMALE...	11	-	-	-	-	-	-	1	-	1	5	4
	VIII. DISEASES OF THE RESPIRATORY SYSTEM	2,413	5	2	1	7	6	20	44	189	591	851	697
	MALE.....	1,206	3	2	-	4	2	12	20	104	350	445	264
	FEMALE...	1,207	2	-	1	3	4	8	24	85	241	406	433

TABLE 4-6. NUMBER OF DEATHS FROM SELECTED CAUSES BY AGE AND SEX, OREGON RESIDENTS, 1989-Continued

9TH REV. ICD	CAUSE OF DEATH	TOTAL	AGE GROUPS										
			< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
480-487	PNEUMONIA & INFLUENZA	924	3	-	1	5	3	5	14	24	106	294	469
	MALE.....	374	3	-	-	2	1	1	4	18	64	138	143
	FEMALE...	550	-	-	1	3	2	4	10	6	42	156	326
480-486	PNEUMONIA	871	3	-	1	3	3	5	13	23	99	274	447
	MALE.....	357	3	-	-	1	1	1	4	18	61	131	137
	FEMALE...	514	-	-	1	2	2	4	9	5	38	143	310
487	INFLUENZA	53	-	-	-	2	-	-	1	1	7	20	22
	MALE.....	17	-	-	-	1	-	-	-	-	3	7	6
	FEMALE...	36	-	-	-	1	-	-	1	1	4	13	16
490-496	CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND ALLIED CONDITIONS	1,272	-	-	-	1	2	13	24	150	436	479	167
	MALE.....	705	-	-	-	1	1	9	11	76	250	262	95
	FEMALE...	567	-	-	-	-	1	4	13	74	186	217	72
490-491	CHRONIC & UNSPECIFIED BRONCHITIS	68	-	-	-	-	-	1	1	8	23	18	17
	MALE.....	38	-	-	-	-	-	1	-	3	14	11	9
	FEMALE...	30	-	-	-	-	-	-	1	5	9	7	8
492	EMPHYSEMA	244	-	-	-	-	-	1	3	35	87	99	19
	MALE.....	143	-	-	-	-	-	1	2	17	56	55	12
	FEMALE...	101	-	-	-	-	-	-	1	18	31	44	7
493	ASTHMA	112	-	-	-	1	2	7	7	12	25	44	14
	MALE.....	40	-	-	-	1	1	3	2	5	10	14	4
	FEMALE...	72	-	-	-	-	1	4	5	7	15	30	10
494	BRONCHIECTASIS	18	-	-	-	-	-	1	1	2	3	7	4
	MALE.....	3	-	-	-	-	-	1	-	-	-	-	2
	FEMALE...	15	-	-	-	-	-	-	1	2	3	7	2
496	CHRONIC AIRWAYS OBSTRUCTION NOT ELSEWHERE CLASSIFIED (COPD)	830	-	-	-	-	-	3	12	93	298	311	113
	MALE.....	481	-	-	-	-	-	3	7	51	170	182	68
	FEMALE...	349	-	-	-	-	-	-	5	42	128	129	45
RESIDUAL OF 460-519	OTHER DISEASES OF THE RESPIRATORY SYSTEM	217	2	2	-	1	1	2	6	15	49	78	61
	MALE.....	127	-	2	-	1	-	2	5	10	36	45	26
	FEMALE...	90	2	-	-	-	1	-	1	5	13	33	35
	IX. DISEASES OF THE DIGESTIVE SYSTEM	765	1	-	-	1	14	39	46	113	161	214	176
	MALE.....	388	1	-	-	-	9	28	35	74	94	95	52
	FEMALE...	377	-	-	-	1	5	11	11	39	67	119	124

TABLE 4-6. NUMBER OF DEATHS FROM SELECTED CAUSES BY AGE AND SEX, OREGON RESIDENTS, 1989-Continued

9TH REV. ICD	CAUSE OF DEATH	TOTAL	AGE GROUPS										
			< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
531	ULCER OF THE STOMACH	19	-	-	-	-	-	-	-	-	1	6	12
	MALE.....	5	-	-	-	-	-	-	-	-	1	1	3
	FEMALE...	14	-	-	-	-	-	-	-	-	-	5	9
532	ULCER OF THE DUODENUM	35	-	-	-	-	-	-	2	4	7	14	8
	MALE.....	21	-	-	-	-	-	-	1	2	5	9	4
	FEMALE...	14	-	-	-	-	-	-	1	2	2	5	4
533	PEPTIC ULCER	15	-	-	-	-	-	-	-	-	-	7	8
	MALE.....	9	-	-	-	-	-	-	-	-	-	6	3
	FEMALE...	6	-	-	-	-	-	-	-	-	-	1	5
550-553, 560	HERNIA & INTESTINAL OBSTRUCTION	52	-	-	-	-	2	-	-	3	5	19	23
	MALE.....	17	-	-	-	-	2	-	-	2	2	8	3
	FEMALE...	35	-	-	-	-	-	-	-	1	3	11	20
571	CIRRHOSIS OF THE LIVER	263	-	-	-	-	11	32	34	68	72	39	7
	MALE.....	185	-	-	-	-	6	25	27	49	47	28	3
	FEMALE...	78	-	-	-	-	5	7	7	19	25	11	4
571.0-.3	ALCOHOLIC CIRRHOSIS OF THE LIVER	213	-	-	-	-	11	32	33	56	51	27	3
	MALE.....	162	-	-	-	-	6	25	27	43	38	22	1
	FEMALE...	51	-	-	-	-	5	7	6	13	13	5	2
574-576	DISEASES OF THE GALLBLADDER	38	-	-	-	-	-	1	1	4	4	13	15
	MALE.....	18	-	-	-	-	-	-	1	2	3	4	8
	FEMALE...	20	-	-	-	-	-	1	-	2	1	9	7
577	DISEASES OF THE PANCREAS	25	-	-	-	-	-	-	2	5	7	7	4
	MALE.....	14	-	-	-	-	-	-	2	4	2	4	2
	FEMALE...	11	-	-	-	-	-	-	-	1	5	3	2
RESIDUAL OF 520-579	OTHER DISEASES OF THE DIGESTIVE SYSTEM	318	1	-	-	1	1	6	7	29	65	109	99
	MALE.....	119	1	-	-	-	1	3	4	15	34	35	26
	FEMALE...	199	-	-	-	1	-	3	3	14	31	74	73
	X. DISEASES OF THE GENITOURINARY SYSTEM	287	-	-	-	2	4	5	5	15	42	107	107
	MALE.....	137	-	-	-	1	3	1	3	9	22	54	44
	FEMALE...	150	-	-	-	1	1	4	2	6	20	53	63
580-589	NEPHRITIS & NEPHROSIS	127	-	-	-	1	3	2	5	8	25	46	37
	MALE.....	69	-	-	-	1	3	-	3	5	14	27	16
	FEMALE...	58	-	-	-	-	-	2	2	3	11	19	21

TABLE 4-6. NUMBER OF DEATHS FROM SELECTED CAUSES BY AGE AND SEX, OREGON RESIDENTS, 1989-Continued

9TH REV. ICD	CAUSE OF DEATH	TOTAL	AGE GROUPS									
			< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
590	INFECTIONS OF THE KIDNEY	27	-	-	-	-	1	1	-	1	4	8	12
	MALE.....	9	-	-	-	-	-	-	-	-	1	4	4
	FEMALE...	18	-	-	-	-	1	1	-	1	3	4	8
600-608	DISEASES OF MALE GENITAL ORGANS	6	-	-	-	-	-	-	-	-	-	6	-
	MALE.....	6	-	-	-	-	-	-	-	-	-	6	-
614-629	DISEASES OF THE UTERUS AND OTHER FEMALE GENITAL ORGANS	2	-	-	-	-	-	1	-	-	-	-	1
	FEMALE...	2	-	-	-	-	-	1	-	-	-	-	1
RESIDUAL OF 580-629	OTHER DISEASES OF THE GENITO-URINARY SYSTEM	125	-	-	-	1	-	1	-	6	13	47	57
	MALE.....	53	-	-	-	-	-	1	-	4	7	17	24
	FEMALE...	72	-	-	-	1	-	-	-	2	6	30	33
	XI. COMPLICATIONS OF PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM	4	-	-	-	2	1	-	1	-	-	-	-
	FEMALE...	4	-	-	-	2	1	-	1	-	-	-	-
630-676	COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	4	-	-	-	2	1	-	1	-	-	-	-
	FEMALE...	4	-	-	-	2	1	-	1	-	-	-	-
	XII. DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE	36	-	-	-	-	1	1	1	1	5	13	14
	MALE.....	15	-	-	-	-	1	1	-	-	3	6	4
	FEMALE...	21	-	-	-	-	-	-	1	1	2	7	10
680-709	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE	36	-	-	-	-	1	1	1	1	5	13	14
	MALE.....	15	-	-	-	-	1	1	-	-	3	6	4
	FEMALE...	21	-	-	-	-	-	-	1	1	2	7	10
	XIII. MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE DISEASES	107	-	-	-	1	-	2	3	10	25	35	31
	MALE.....	35	-	-	-	1	-	1	1	1	14	8	9
	FEMALE...	72	-	-	-	-	-	1	2	9	11	27	22
	XIV. CONGENITAL ANOMALIES	121	77	9	3	2	2	4	7	3	8	5	1
	MALE.....	78	56	3	1	1	2	3	3	-	5	3	1
	FEMALE...	43	21	6	2	1	-	1	4	3	3	2	-

TABLE 4-6. NUMBER OF DEATHS FROM SELECTED CAUSES BY AGE AND SEX, OREGON RESIDENTS, 1989-Continued

9TH REV. ICD	CAUSE OF DEATH	TOTAL	AGE GROUPS										
			< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
745-746	CONGENITAL ANOMALIES OF THE HEART	34	21	4	1	2	-	1	3	-	1	1	-
	MALE.....	21	16	1	1	1	-	-	2	-	-	-	-
	FEMALE...	13	5	3	-	1	-	1	1	-	1	1	-
RESIDUAL OF 740-759	OTHER CONGENITAL ANOMALIES	87	56	5	2	-	2	3	4	3	7	4	1
	MALE.....	57	40	2	-	-	2	3	1	-	5	3	1
	FEMALE...	30	16	3	2	-	-	-	3	3	2	1	-
	XV. CERTAIN CAUSES OF MORTALITY IN EARLY INFANCY	170	163	4	1	2	-	-	-	-	-	-	-
	MALE.....	99	93	4	1	1	-	-	-	-	-	-	-
	FEMALE...	71	70	-	-	1	-	-	-	-	-	-	-
	XVI. SYMPTOMS AND ILL-DEFINED CONDITIONS	442	95	3	-	1	2	7	6	27	65	103	133
	MALE.....	195	52	1	-	1	1	5	6	18	37	43	31
	FEMALE...	247	43	2	-	-	1	2	-	9	28	60	102
797	SENILITY	13	-	-	-	-	-	-	-	-	-	2	11
	MALE.....	3	-	-	-	-	-	-	-	-	-	-	3
	FEMALE...	10	-	-	-	-	-	-	-	-	-	2	8
798.0	SUDDEN INFANT DEATH SYNDROME	93	93	-	-	-	-	-	-	-	-	-	-
	MALE.....	52	52	-	-	-	-	-	-	-	-	-	-
	FEMALE...	41	41	-	-	-	-	-	-	-	-	-	-
RESIDUAL OF 780-799	OTHER SYMPTOMS AND ILL-DEFINED CONDITIONS	336	2	3	-	1	2	7	6	27	65	101	122
	MALE.....	140	-	1	-	1	1	5	6	18	37	43	28
	FEMALE...	196	2	2	-	-	1	2	-	9	28	58	94
	XVII. ACCIDENTS, POISONINGS, AND VIOLENCE	1,810	5	33	62	295	340	300	166	131	181	170	127
	MALE.....	1,280	3	22	42	229	250	219	129	98	119	108	61
	FEMALE...	530	2	11	20	66	90	81	37	33	62	62	66
800-949	ACCIDENTS	1,151	3	26	50	194	201	162	89	84	104	129	109
	MALE.....	790	2	19	34	146	153	120	65	66	65	73	47
	FEMALE...	361	1	7	16	48	48	42	24	18	39	56	62
810-825	MOTOR VEHICLE ACCIDENTS	614	1	12	30	154	126	90	52	34	52	47	16
	MALE.....	405	-	8	18	112	90	61	32	23	28	23	10
	FEMALE...	209	1	4	12	42	36	29	20	11	24	24	6

TABLE 4-6. NUMBER OF DEATHS FROM SELECTED CAUSES BY AGE AND SEX, OREGON RESIDENTS, 1989-Continued

9TH REV. ICD	CAUSE OF DEATH	TOTAL	AGE GROUPS									
			< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
830-838	WATER TRANSPORT ACCIDENTS	28	-	-	3	2	5	6	2	7	2	1	-
	MALE.....	25	-	-	2	1	5	6	1	7	2	1	-
	FEMALE...	3	-	-	1	1	-	-	1	-	-	-	-
840-845	AIR TRANSPORT ACCIDENTS	16	-	-	1	1	2	4	2	5	1	-	-
	MALE.....	13	-	-	1	1	1	2	2	5	1	-	-
	FEMALE...	3	-	-	-	-	1	2	-	-	-	-	-
850-869	POISONING ACCIDENTS	49	-	1	-	4	16	14	5	2	1	2	4
	MALE.....	36	-	-	-	4	12	12	4	2	-	-	2
	FEMALE...	13	-	1	-	-	4	2	1	-	1	2	2
880-888	ACCIDENTAL FALLS	170	1	-	2	3	4	6	4	16	19	42	73
	MALE.....	91	1	-	1	3	2	4	3	12	12	25	28
	FEMALE...	79	-	-	1	-	2	2	1	4	7	17	45
890-899	FIRE & FLAME ACCIDENTS	26	-	1	2	-	3	4	1	3	3	6	3
	MALE.....	19	-	1	2	-	3	3	1	2	1	5	1
	FEMALE...	7	-	-	-	-	-	1	-	1	2	1	2
910	DROWNING AND SUBMERSION	57	-	8	5	14	11	6	5	-	7	1	-
	MALE.....	49	-	6	4	13	8	5	5	-	7	1	-
	FEMALE...	8	-	2	1	1	3	1	-	-	-	-	-
950-959	SUICIDES	459	-	-	4	72	83	93	55	35	64	39	14
	MALE.....	358	-	-	4	62	61	69	46	24	48	34	10
	FEMALE...	101	-	-	-	10	22	24	9	11	16	5	4
960-978	HOMICIDES	146	-	5	7	23	38	33	16	9	10	2	3
	MALE.....	95	-	2	3	15	26	20	13	7	5	1	3
	FEMALE...	51	-	3	4	8	12	13	3	2	5	1	-
980-989	INJURIES UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED	54	2	2	1	6	18	12	6	3	3	-	1
	MALE.....	37	1	1	1	6	10	10	5	1	1	-	1
	FEMALE...	17	1	1	-	-	8	2	1	2	2	-	-

TABLE 4-7. RESIDENT DEATH RATES FOR SELECTED CAUSES BY AGE AND SEX, OREGON, 1989

CAUSE OF DEATH		AGE GROUPS										
		TOTAL	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALL CAUSES		884.2	883.0	43.6	24.6	88.8	121.7	179.8	371.3	1134.9	2580.7	7945.9
	MALE....	940.1	1010.9	52.2	31.3	131.8	172.9	239.4	475.6	1487.4	3427.5	9307.9
	FEMALE..	830.5	746.7	34.6	17.5	43.7	71.3	119.9	267.2	814.2	1894.5	7142.4
I. INFECTIVE AND PARASITIC DISEASE		12.2	7.3	1.3	.5	1.5	8.3	14.7	15.2	15.0	19.0	63.6
	MALE....	16.6	9.4	1.3	.5	2.4	15.8	26.8	26.9	20.4	20.7	69.5
	FEMALE..	7.9	5.0	1.3	.5	.5	.9	2.7	3.5	10.1	17.6	60.1
010-018 TUBERCULOSIS, ALL FORMS		.6								1.8	1.9	6.0
137	MALE....	.4								1.9		6.5
	FEMALE..	.8								1.7	3.4	5.7
038 SEPTICEMIA		3.3				.2		.4	.7	5.7	6.9	35.4
	MALE....	3.1				.5		.9	1.4	7.4	6.2	38.8
	FEMALE..	3.4								4.2	7.5	33.4
042-044 AIDS		4.8				.5	7.6	12.3	12.0	2.2	1.9	.6
	MALE....	9.4				.9	14.9	23.6	23.4	4.6	3.1	
	FEMALE..	.4					.4	.9	.7		.8	1.0
070 VIRAL HEPATITIS		.9				.2	.4	.9	1.4	1.3	2.3	3.6
	MALE....	1.0					.9	.9	1.4	.9	4.1	3.2
	FEMALE..	.8				.5		.9	1.4	1.7	.8	3.8
RESIDUAL OTHER INFECTIVE & PARASITIC		2.5	7.3	1.3	.5	.5	.2	1.1	1.1	4.0	6.0	18.0
OF DISEASES	MALE....	2.6	9.4	1.3	.5	.9		1.3	.7	5.6	7.2	21.0
001-139	FEMALE..	2.4	5.0	1.3	.5		.4	.9	1.4	2.5	5.0	16.2
II. NEOPLASMS		211.3	2.4	5.2	3.8	3.6	13.0	36.6	128.7	436.5	887.2	1419.8
	MALE....	229.1		6.4	3.9	5.7	12.6	31.7	126.0	496.1	1124.9	1957.0
	FEMALE..	194.1	5.0	4.0	3.6	1.5	13.4	41.6	131.5	382.2	694.6	1102.9
140-208 MALIGNANT NEOPLASMS		208.5	2.4	5.2	3.8	3.6	13.0	35.7	128.0	432.5	878.9	1393.4
	MALE....	226.8		6.4	3.9	5.7	12.6	30.8	125.3	491.5	1113.5	1936.0
	FEMALE..	190.9	5.0	4.0	3.6	1.5	13.4	40.7	130.8	378.9	688.8	1073.4
140-149 OF BUCCAL CAVITY & PHARYNX		3.0				.2		.4	1.4	10.6	12.0	16.2
	MALE....	3.7				.5		.4	2.8	13.9	19.6	17.8
	FEMALE..	2.3						.4		7.6	5.9	15.3
150-159 OF DIGESTIVE ORGANS &		48.1					2.7	5.1	26.5	89.7	187.9	373.9
PERITONEUM	MALE....	52.7					2.7	6.2	38.9	122.4	252.3	436.7
	FEMALE..	43.7					2.7	4.0	14.1	59.9	135.7	336.8
150 ESOPHAGUS		3.7					.2	.2	2.5	11.5	17.1	18.0
	MALE....	5.9					.5	.4	3.5	20.4	30.0	37.2
	FEMALE..	1.5							1.4	3.4	6.7	6.7

TABLE 4-7. RESIDENT DEATH RATES FOR SELECTED CAUSES BY AGE AND SEX, OREGON, 1989-Continued

CAUSE OF DEATH		AGE GROUPS										
		TOTAL	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
151 STOMACH		4.7					.2	.2	2.8	8.8	21.5	33.6
	MALE....	5.8					.5	.4	4.2	11.1	36.2	40.4
	FEMALE..	3.7							1.4	6.8	9.2	29.6
153 LARGE INTESTINE (EXC. RECTUM)		18.4					.9	.9	7.1	34.0	62.9	163.2
	MALE....	17.9					.9	.4	11.3	41.7	84.8	160.1
	FEMALE..	18.8					.9	1.3	2.8	27.0	45.2	165.1
154 RECTUM		3.8					.2	1.1	2.1	4.0	17.1	28.2
	MALE....	4.1					.5	1.3	2.1	5.6	23.8	32.3
	FEMALE..	3.4						.9	2.1	2.5	11.7	25.8
157 PANCREAS		11.7					.2	1.1	8.5	21.6	48.1	85.8
	MALE....	12.4						.9	11.3	28.7	54.8	110.0
	FEMALE..	11.0					.4	1.3	5.7	15.2	42.7	71.6
160-165 OF RESPIRATORY/INTRATHORACIC		64.3				.2	.7	6.0	39.3	170.1	325.4	338.5
ORGANS	MALE....	80.5				.5	.9	6.2	43.2	207.7	452.9	585.5
	FEMALE..	48.6					.4	5.8	35.3	135.8	222.0	192.7
162.2-.9 BRONCHUS & LUNG		61.9					.7	5.1	38.9	164.8	314.3	323.5
	MALE....	77.5					.9	5.8	42.5	202.2	439.4	554.8
	FEMALE..	46.8					.4	4.5	35.3	130.8	212.8	187.0
170-175 OF BONE, CONNECTIVE TISSUE,		20.9			1.0	1.5	2.7	11.4	23.3	46.4	73.1	109.2
SKIN & BREAST	MALE....	7.5			2.0	2.4	1.8	7.6	7.8	18.5	20.7	35.6
	FEMALE..	33.8				.5	3.6	15.2	38.9	71.7	115.6	152.7
172 MALIGNANT MELANOMA		2.8				.2	1.1	4.2	3.5	6.2	6.9	9.0
	MALE....	3.5				.5	.9	6.2	4.2	9.3	11.4	6.5
	FEMALE..	2.2					1.3	2.2	2.8	3.4	3.4	10.5
173 OTHER SKIN		.6								2.2	.5	7.2
	MALE....	1.1								3.7	1.0	16.2
	FEMALE..	.2								.8		1.9
174-175 BREAST		15.9					1.1	6.5	18.0	35.8	61.1	87.0
	MALE....	.6							.7	1.9	2.1	4.9
	FEMALE..	30.6					2.2	13.0	35.3	66.7	108.9	135.5
179-187 OF GENITAL ORGANS		25.0				.2	1.3	4.2	11.7	35.3	93.5	214.8
	MALE....	30.3					.9	1.3	2.8	31.5	114.8	420.5
	FEMALE..	20.0				.5	1.8	7.2	20.5	38.8	76.2	93.5
179-182 CERVIX & UTERUS		4.1				.2	.7	2.0	6.0	7.1	15.7	21.0
	MALE....											
	FEMALE..	8.1				.5	1.3	4.0	12.0	13.5	28.5	33.4

TABLE 4-7. RESIDENT DEATH RATES FOR SELECTED CAUSES BY AGE AND SEX, OREGON, 1989-Continued

	CAUSE OF DEATH		AGE GROUPS										
			TOTAL	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
183.0	OVARY		5.7					.2	1.6	4.2	12.4	25.9	33.6
		MALE....											
		FEMALE..	11.2					.4	3.1	8.5	23.6	46.9	53.4
185	PROSTATE		14.5							1.4	14.6	50.4	154.8
		MALE....	29.5							2.8	30.6	112.7	417.3
		FEMALE..											
188-189	OF URINARY ORGANS		8.0					.4	.7	5.0	11.5	33.8	62.4
		MALE....	10.1						.4	7.1	13.9	53.8	97.0
		FEMALE..	5.9					.9	.9	2.8	9.3	17.6	42.0
188	BLADDER		4.1								2.2	16.7	43.8
		MALE....	5.8								2.8	27.9	79.3
		FEMALE..	2.5								1.7	7.5	22.9
190-199	OF OTHER & UNSPECIFIED SITES		18.8		1.3	.8	.5	2.5	5.6	12.4	37.1	76.8	117.6
		MALE....	20.0		1.3	.5	.9	3.2	5.8	11.3	49.1	90.0	152.0
		FEMALE..	17.6		1.3	1.0		1.8	5.4	13.4	26.2	66.2	97.3
191	BRAIN		6.3			.3	.2	1.3	4.0	5.7	15.9	24.1	27.0
		MALE....	7.2			.5	.5	1.8	4.0	5.7	23.2	27.9	38.8
		FEMALE..	5.3					.9	4.0	5.7	9.3	20.9	20.0
200-208	OF LYMPHATIC & HEMATOPOIETIC TISSUES		20.4	2.4	3.9	2.0	1.0	2.7	2.2	8.5	31.8	76.4	160.8
		MALE....	21.9		5.1	1.5	1.4	3.2	2.7	11.3	34.3	109.6	190.8
		FEMALE..	19.0	5.0	2.7	2.6	.5	2.2	1.8	5.7	29.5	49.4	143.1
204-208	LEUKEMIA		7.8	2.4	3.9	1.8	.2	2.2	.9	2.5	9.3	30.1	58.2
		MALE....	8.6		5.1	1.5	.5	2.7	.9	2.8	6.5	44.5	77.6
		FEMALE..	7.1	5.0	2.7	2.1		1.8	.9	2.1	11.8	18.4	46.8
204	LYMPHATIC LEUKEMIA		2.4		2.6	1.3	.2	.7		.7	2.2	8.8	17.4
		MALE....	2.6		2.5	1.0	.5	.9		.7	2.8	13.4	17.8
		FEMALE..	2.3		2.7	1.5		.4		.7	1.7	5.0	17.2
210-229	BENIGN NEOPLASMS		.9						.4	.4	1.8	2.3	7.2
		MALE....	.8						.4	.7	1.9	3.1	6.5
		FEMALE..	.9						.4		1.7	1.7	7.6
230-239	IN SITU, UNCERTAIN BEHAVIOR & UNSPECIFIED NATURE NEOPLASMS		1.9						.4	.4	2.2	6.0	19.2
		MALE....	1.5						.4		2.8	8.3	14.6
		FEMALE..	2.2						.4	.7	1.7	4.2	21.9
III.	ENDOCRINE, NUTRITIONAL, AND METABOLIC DISEASES		22.4	9.7	.7	1.0	1.2	3.1	5.1	10.6	34.0	75.4	182.4
		MALE....	20.6		1.3	1.0	1.4	4.1	6.7	14.2	43.6	85.8	165.0
		FEMALE..	24.1	20.0		1.0	1.0	2.2	3.6	7.1	25.3	67.0	192.7

TABLE 4-7. RESIDENT DEATH RATES FOR SELECTED CAUSES BY AGE AND SEX, OREGON, 1989-Continued

CAUSE OF DEATH		AGE GROUPS										
		TOTAL	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
250 DIABETES MELLITUS		16.1				.2	1.1	3.3	7.4	26.5	58.3	133.2
	MALE....	14.4				.5	.9	4.0	9.2	34.3	66.2	114.8
	FEMALE..	17.8					1.3	2.7	5.7	19.4	52.0	144.1
RESIDUAL OF 240-279 OTHER ENDOCRINE, NUTRITIONAL, & METABOLIC DISEASES		6.3	9.7	.7	1.0	1.0	2.0	1.8	3.2	7.5	17.1	49.2
	MALE....	6.2		1.3	1.0	.9	3.2	2.7	5.0	9.3	19.6	50.1
	FEMALE..	6.3	20.0		1.0	1.0	.9	.9	1.4	5.9	15.1	48.7
IV. DISEASES OF THE BLOOD & BLOOD-FORMING ORGANS		3.3			.3	.2	.7	.7	.7	2.7	13.0	29.4
	MALE....	3.4			.5	.5	.5	.4	1.4	2.8	14.5	37.2
	FEMALE..	3.3					.9	.9		2.5	11.7	24.8
280-285 ANEMIAS		1.1			.3	.2	.4	.2		.9	2.8	11.4
	MALE....	1.0			.5	.5		.4		.9	2.1	12.9
	FEMALE..	1.3					.9			.8	3.4	10.5
RESIDUAL OF 280-289 OTHER DISEASES OF THE BLOOD & BLOOD-FORMING ORGANS		2.2					.2	.4	.7	1.8	10.2	18.0
	MALE....	2.3					.5		1.4	1.9	12.4	24.3
	FEMALE..	2.0						.9		1.7	8.4	14.3
V. MENTAL DISORDERS		20.4	2.4			1.0	2.0	5.4	11.0	18.1	29.2	238.2
	MALE....	19.3				1.4	3.6	6.7	18.4	23.2	44.5	232.9
	FEMALE..	21.5	5.0			.5	.4	4.0	3.5	13.5	16.8	241.4
290.1 ALZHEIMERS DEMENTIA		3.2								.4	1.9	49.8
	MALE....	1.9										42.1
	FEMALE..	4.4								.8	3.4	54.4
291 ALCOHOLIC PSYCHOSIS		.2					.2		.4	.4	.5	.6
	MALE....	.3					.5		.7	.9	1.0	
	FEMALE..	.1										1.0
303 ALCOHOLISM		3.6				.2	.2	3.3	8.8	11.5	10.6	6.0
	MALE....	5.6				.5	.5	4.5	16.3	16.7	16.5	11.3
	FEMALE..	1.8						2.2	1.4	6.8	5.9	2.9
304 DRUG DEPENDENCE		.5	-			.2	1.1	1.1	.4		.5	
	MALE....	.8					2.3	1.8	.7		1.0	
	FEMALE..	.1				.5		.4				
305 NON-DEPENDENT DRUG ABUSE		1.8	2.4			.2	.4	.4	.7	4.4	8.8	7.8
	MALE....	2.3				.5	.5	.4	.7	4.6	15.5	11.3
	FEMALE..	1.3	5.0				.4	.4	.7	4.2	3.4	5.7
RESIDUAL OF 290-319 OTHER MENTAL DISORDERS		11.2				.2		.4	.7	1.3	6.9	174.0
	MALE....	8.5				.5				.9	10.3	168.2
	FEMALE..	13.8						.9	1.4	1.7	4.2	177.5

TABLE 4-7. RESIDENT DEATH RATES FOR SELECTED CAUSES BY AGE AND SEX, OREGON, 1989-Continued

CAUSE OF DEATH		AGE GROUPS										
		TOTAL	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
VI. DISEASES OF THE NERVOUS SYSTEM & SENSE ORGANS	MALE....	22.1	12.1	2.6	1.3	3.2	3.4	4.2	2.5	17.7	50.4	240.0
	FEMALE..	22.7	14.1	1.3	2.4	5.2	5.0	4.5	1.4	17.6	67.2	297.6
		21.5	10.0	4.0		1.0	1.8	4.0	3.5	17.7	36.9	206.1
320-322 MENINGITIS		.3					.2	.2		.9	.9	.6
	MALE....	.2					.5			.9	1.0	
	FEMALE..	.3						.4		.8	.8	1.0
331.0 ALZHEIMER'S DISEASE		9.6								.9	13.4	141.6
	MALE....	7.7								1.9	13.4	147.2
	FEMALE..	11.3									13.4	138.3
332 PARKINSON'S DISEASE		4.7								2.2	5.1	68.4
	MALE....	5.6								1.9	7.2	110.0
	FEMALE..	3.7								2.5	3.4	43.9
345 EPILEPSY		1.0		.7		.5	1.3	1.3		.9	2.8	2.4
	MALE....	1.5		1.3		.9	2.3	1.3		.9	5.2	6.5
	FEMALE..	.4					.4	1.3		.8	.8	
RESIDUAL OF 320-389 OTHER DISEASES OF THE NERVOUS SYSTEM & SENSE ORGANS		6.7	12.1	2.0	1.3	2.7	1.8	2.7	2.5	12.8	28.2	27.0
	MALE....	7.6	14.1		2.4	4.3	2.3	3.1	1.4	12.1	40.3	34.0
	FEMALE..	5.8	10.0	4.0		1.0	1.3	2.2	3.5	13.5	18.4	22.9
VII. DISEASES OF THE CIRCULATORY SYSTEM		372.0	9.7	.7	1.0	2.2	8.3	28.6	104.0	395.0	1007.6	4101.7
	MALE....	377.5	9.4	1.3	1.5	2.4	10.4	42.4	147.9	601.8	1404.1	4562.6
	FEMALE..	366.7	10.0		.5	2.0	6.2	14.8	60.1	206.7	686.2	3829.8
390-448 MAJOR CARDIOVASCULAR DISEASES		370.4	9.7	.7	1.0	2.2	8.1	28.6	103.6	392.7	1000.6	4087.9
	MALE....	375.8	9.4	1.3	1.5	2.4	9.9	42.4	147.9	598.1	1394.8	4548.0
	FEMALE..	365.2	10.0		.5	2.0	6.2	14.8	59.4	205.9	681.2	3816.4
390-398, 402, 404-429 DISEASES OF THE HEART		268.5	9.7	.7	.8	1.7	6.5	23.7	87.0	327.8	755.8	2834.3
	MALE....	285.8	9.4	1.3	1.0	2.4	9.5	36.1	128.8	509.1	1093.9	3250.9
	FEMALE..	251.9	10.0		.5	1.0	3.6	11.2	45.2	162.8	481.8	2588.5
390-398 RHEUMATIC FEVER & CHRONIC RHEUMATIC HEART DISEASE		3.1				.2	.2	1.1	1.1	4.9	9.3	27.6
	MALE....	2.3							.7	7.4	10.3	21.0
	FEMALE..	3.9				.5	.4	2.2	1.4	2.5	8.4	31.5
402,404 HYPERTENSIVE HEART DISEASE WITH OR WITHOUT RENAL DISEASE		7.8						.7	1.8	7.1	14.8	97.2
	MALE....	5.1						.9	2.1	8.3	12.4	71.2
	FEMALE..	10.4						.4	1.4	5.9	16.8	112.6
410-414 ISCHEMIC HEART DISEASE		195.0				.2	3.4	16.3	70.7	250.5	579.5	2000.7
	MALE....	217.2				.5	5.4	29.0	109.0	404.3	857.1	2385.6
	FEMALE..	173.6					1.3	3.6	32.5	110.5	354.4	1773.7

TABLE 4-7. RESIDENT DEATH RATES FOR SELECTED CAUSES BY AGE AND SEX, OREGON, 1989-Continued

	CAUSE OF DEATH		AGE GROUPS										
			TOTAL	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
410	MYOCARDIAL INFARCTION		75.1				.2	.7	4.0	24.0	104.3	253.6	733.3
		MALE....	84.6				.5	1.4	6.2	36.8	168.8	359.8	902.5
		FEMALE..	65.9						1.8	11.3	45.6	167.6	633.5
411	OTHER ACUTE & SUBACUTE		.3							.4	1.8	.5	1.8
	ISCHEMIC HEART	MALE....	.2							.7	.9		1.6
	DISEASE	FEMALE..	.4								2.5	.8	1.9
412-414	CHRONIC ISCHEMIC HEART DISEASE		119.6					2.7	12.3	46.3	144.5	325.4	1265.6
		MALE....	132.3					4.1	22.7	71.5	234.6	497.3	1481.5
		FEMALE..	107.3					1.3	1.8	21.2	62.4	186.0	1138.2
415-429	ALL OTHER FORMS		62.6	9.7	.7	.8	1.2	2.9	5.6	13.4	65.4	152.3	708.7
		MALE....	61.2	9.4	1.3	1.0	1.9	4.1	6.2	17.0	89.0	214.0	773.1
		FEMALE..	64.0	10.0		.5	.5	1.8	4.9	9.9	43.9	102.2	670.7
401,403	HYPERTENSION		5.0					.2	.4	1.8	2.2	13.9	57.6
		MALE....	4.7						.9	3.5	4.6	14.5	61.5
		FEMALE..	5.3					.4				13.4	55.3
430-438	CEREBROVASCULAR DISEASE		71.9			.3	.5	.7	3.1	11.3	45.9	156.9	906.7
		MALE....	59.3			.5		.5	4.0	13.4	61.2	175.8	881.5
		FEMALE..	84.0				1.0	.9	2.2	9.2	32.1	141.6	921.7
430	SUBARACHNOID HEMORRHAGE		2.8			.3	.5	.2	1.3	3.9	7.1	10.2	12.0
		MALE....	2.3			.5			.9	5.0	5.6	7.2	12.9
		FEMALE..	3.4				1.0	.4	1.8	2.8	8.4	12.6	11.4
431-432	INTRACEREBRAL & INTRACRANIAL		8.2					.2	1.6	4.6	12.8	25.9	73.8
	HEMORRHAGES	MALE....	7.0					.5	2.7	3.5	13.9	21.7	77.6
		FEMALE..	9.3						.4	5.7	11.8	29.3	71.6
434	CEREBRAL THROMBOSIS & EMBOLISM		11.3					.2	.2	.7	6.6	21.3	149.4
		MALE....	8.8						.4	1.4	10.2	22.7	137.5
		FEMALE..	13.6					.4			3.4	20.1	156.5
436	ACUTE BUT ILL-DEFINED		39.9							1.1	16.8	79.1	541.9
	CEREBROVASCULAR	MALE....	32.7							1.4	26.9	96.2	522.4
	DISEASE	FEMALE..	47.0							.7	7.6	65.4	553.4
437	GENERALIZED ISCHEMIC		5.1								.9	8.3	73.8
	CEREBROVASCULAR	MALE....	3.9								1.9	7.2	71.2
	DISEASE	FEMALE..	6.3									9.2	75.4
440	ARTERIOSCLEROSIS		12.7					.2		.4	5.3	20.4	178.2
		MALE....	10.4							.7	8.3	23.8	176.3
		FEMALE..	15.0					.4			2.5	17.6	179.4

TABLE 4-7. RESIDENT DEATH RATES FOR SELECTED CAUSES BY AGE AND SEX, OREGON, 1989-Continued

	CAUSE OF DEATH		AGE GROUPS										
			TOTAL	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
441-448	OTHER DISEASES OF ARTERIES, ARTERIOLES & CAPILLARIES		12.3					.4	1.3	3.2	11.5	53.7	111.0
		MALE....	15.7						1.3	1.4	14.8	86.8	177.9
		FEMALE..	9.1					.9	1.3	4.9	8.4	26.8	71.6
451-453	VENOUS THROMBOSIS & EMBOLISM		.6								1.3	4.6	3.0
		MALE....	.5								1.9	5.2	
		FEMALE..	.8								.8	4.2	4.8
RESIDUAL OF 390-459	OTHER DISEASES OF THE CIRCULATORY SYSTEM		1.0					.2		.4	.9	2.3	10.8
		MALE....	1.2					.5			1.9	4.1	14.6
		FEMALE..	.8							.7		.8	8.6
VIII.	DISEASES OF THE RESPIRATORY SYSTEM		86.5	12.1	1.3	.3	1.7	1.3	4.5	15.6	83.5	273.5	928.9
		MALE....	88.1	14.1	2.5		1.9	.9	5.4	14.2	96.4	361.9	1146.7
		FEMALE..	84.8	10.0		.5	1.5	1.8	3.6	17.0	71.7	201.9	800.5
480-487	PNEUMONIA & INFLUENZA		33.1	7.3		.3	1.2	.7	1.1	5.0	10.6	49.1	457.9
		MALE....	27.3	14.1			.9	.5	.4	2.8	16.7	66.2	454.5
		FEMALE..	38.7			.5	1.5	.9	1.8	7.1	5.1	35.2	459.9
480-486	PNEUMONIA		31.2	7.3		.3	.7	.7	1.1	4.6	10.2	45.8	432.7
		MALE....	26.1	14.1			.5	.5	.4	2.8	16.7	63.1	433.5
		FEMALE..	36.1			.5	1.0	.9	1.8	6.4	4.2	31.8	432.2
487	INFLUENZA		1.9				.5			.4	.4	3.2	25.2
		MALE....	1.2				.5					3.1	21.0
		FEMALE..	2.5				.5			.7	.8	3.4	27.7
490-496	CHRONIC OBSTRUCTIVE PULMONARY DISEASE & ALLIED CONDITIONS		45.6				.2	.4	2.9	8.5	66.3	201.8	387.7
		MALE....	51.5				.5	.5	4.0	7.8	70.5	258.5	577.4
		FEMALE..	39.9					.4	1.8	9.2	62.4	155.9	275.7
490-491	CHRONIC & UNSPECIFIED BRONCHITIS		2.4						.2	.4	3.5	10.6	21.0
		MALE....	2.8						.4		2.8	14.5	32.3
		FEMALE..	2.1							.7	4.2	7.5	14.3
492	EMPHYSEMA		8.7						.2	1.1	15.5	40.3	70.8
		MALE....	10.5						.4	1.4	15.8	57.9	108.4
		FEMALE..	7.1							.7	15.2	26.0	48.7
493	ASTHMA		4.0				.2	.4	1.6	2.5	5.3	11.6	34.8
		MALE....	2.9				.5	.5	1.3	1.4	4.6	10.3	29.1
		FEMALE..	5.1					.4	1.8	3.5	5.9	12.6	38.2
494	BRONCHIECTASIS		.6						.2	.4	.9	1.4	6.6
		MALE....	.2						.4				3.2
		FEMALE..	1.1							.7	1.7	2.5	8.6

TABLE 4-7. RESIDENT DEATH RATES FOR SELECTED CAUSES BY AGE AND SEX, OREGON, 1989-Continued

	CAUSE OF DEATH		AGE GROUPS										
			TOTAL	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
495	EXTRINSIC ALLERGIC ALVEOLITIS												
		MALE....											
		FEMALE..											
496	CHRONIC AIRWAY OBSTRUCTION NOT		29.7						.7	4.2	41.1	137.9	254.4
	ELSEWHERE CLASSIFIED	MALE....	35.2						1.3	5.0	47.3	175.8	404.3
	(COPD)	FEMALE..	24.5							3.5	35.4	107.3	166.0
RESIDUAL	OTHER DISEASES OF THE		7.8	4.9	1.3		.2	.2	.4	2.1	6.6	22.7	83.4
OF	RESPIRATORY	MALE....	9.3		2.5		.5		.9	3.5	9.3	37.2	114.8
460-519	SYSTEM	FEMALE..	6.3	10.0				.4		.7	4.2	10.9	64.9
IX.	DISEASES OF THE DIGESTIVE		27.4	2.4			.2	3.1	8.7	16.3	49.9	74.5	234.0
	SYSTEM	MALE....	28.4	4.7				4.1	12.5	24.8	68.6	97.2	237.8
		FEMALE..	26.5				.5	2.2	4.9	7.8	32.9	56.1	231.8
531	ULCER OF THE STOMACH		.7									.5	10.8
		MALE....	.4									1.0	6.5
		FEMALE..	1.0										13.4
532	ULCER OF THE DUODENUM		1.3							.7	1.8	3.2	13.2
		MALE....	1.5							.7	1.9	5.2	21.0
		FEMALE..	1.0							.7	1.7	1.7	8.6
533	PEPTIC ULCER		.5										9.0
		MALE....	.7										14.6
		FEMALE..	.4										5.7
550-553,	HERNIA & INTESTINAL		1.9					.4			1.3	2.3	25.2
560	OBSTRUCTION	MALE....	1.2					.9			1.9	2.1	17.8
		FEMALE..	2.5								.8	2.5	29.6
571	CIRRHOSIS OF THE LIVER		9.4					2.5	7.1	12.0	30.0	33.3	27.6
		MALE....	13.5					2.7	11.1	19.1	45.4	48.6	50.1
		FEMALE..	5.5					2.2	3.1	4.9	16.0	20.9	14.3
571.0-.3	ALCOHOLIC CIRRHOSIS OF THE		7.6					2.5	7.1	11.7	24.7	23.6	18.0
	LIVER	MALE....	11.8					2.7	11.1	19.1	39.9	39.3	37.2
		FEMALE..	3.6					2.2	3.1	4.2	11.0	10.9	6.7
574-576	DISEASES OF THE GALLBLADDER		1.4						.2	.4	1.8	1.9	16.8
		MALE....	1.3							.7	1.9	3.1	19.4
		FEMALE..	1.4						.4		1.7	.8	15.3
577	DISEASES OF THE PANCREAS		.9							.7	2.2	3.2	6.6
		MALE....	1.0							1.4	3.7	2.1	9.7
		FEMALE..	.8								.8	4.2	4.8

TABLE 4-7. RESIDENT DEATH RATES FOR SELECTED CAUSES BY AGE AND SEX, OREGON, 1989-Continued

CAUSE OF DEATH		AGE GROUPS										
		TOTAL	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
RESIDUAL OF 520-579 OTHER DISEASES OF THE DIGESTIVE SYSTEM	MALE	11.4	2.4			.2	.2	1.3	2.5	12.8	30.1	124.8
	FEMALE	8.7	4.7				.5	1.3	2.8	13.9	35.2	98.7
		14.0				.5		1.3	2.1	11.8	26.0	140.3
X. DISEASES OF THE GENITOURINARY SYSTEM	MALE	10.3				.5	.9	1.1	1.8	6.6	19.4	128.4
	FEMALE	10.0				.5	1.4	.4	2.1	8.3	22.7	158.5
		10.5				.5	.4	1.8	1.4	5.1	16.8	110.7
580-589 NEPHRITIS & NEPHROSIS	MALE	4.6				.2	.7	.4	1.8	3.5	11.6	49.8
	FEMALE	5.0				.5	1.4		2.1	4.6	14.5	69.5
		4.1						.9	1.4	2.5	9.2	38.2
590 INFECTIONS OF THE KIDNEY	MALE	1.0					.2	.2		.4	1.9	12.0
	FEMALE	.7									1.0	12.9
		1.3					.4	.4		.8	2.5	11.4
600-608 DISEASES OF MALE GENITAL ORGANS	MALE	.2										3.6
	FEMALE	.4										9.7
614-629 DISEASES OF THE UTERUS & OTHER FEMALE.GENITAL ORGANS	MALE	.1						.2				.6
	FEMALE											
		.1						.4				1.0
RESIDUAL OF 580-629 OTHER DISEASES OF THE GENITO-URINARY SYSTEM	MALE	4.5				.2		.2		2.7	6.0	62.4
	FEMALE	3.9						.4		3.7	7.2	66.3
		5.1				.5				1.7	5.0	60.1
XI. COMPLICATIONS OF PREGNANCY, 630-676 CHILDBIRTH, & THE PUERPERIUM	MALE	.1				.5	.2		.4			
	FEMALE											
		.3				1.0	.4		.7			
XII. DISEASES OF THE SKIN & SUB-680-709 CUTANEOUS TISSUE	MALE	1.3					.2	.2	.4	.4	2.3	16.2
	FEMALE	1.1					.5	.4			3.1	16.2
		1.5							.7	.8	1.7	16.2
XIII. MUSCULOSKELETAL SYSTEM & CON-710-739 NECTIVE TISSUE DISEASES	MALE	3.8				.2		.4	1.1	4.4	11.6	39.6
	FEMALE	2.6				.5		.4	.7	.9	14.5	27.5
		5.1						.4	1.4	7.6	9.2	46.8
XIV. CONGENITAL ANOMALIES	MALE	4.3	186.8	5.9	.8	.5	.4	.9	2.5	1.3	3.7	3.6
	FEMALE	5.7	263.3	3.8	.5	.5	.9	1.3	2.1		5.2	6.5
		3.0	105.2	8.0	1.0	.5		.4	2.8	2.5	2.5	1.9
745-746 CONGENITAL ANOMALIES OF THE HEART	MALE	1.2	50.9	2.6	.3	.5		.2	1.1		.5	.6
	FEMALE	1.5	75.2	1.3	.5	.5			1.4			
		.9	25.1	4.0		.5		.4	.7		.8	1.0

TABLE 4-7. RESIDENT DEATH RATES FOR SELECTED CAUSES BY AGE AND SEX, OREGON, 1989-Continued

CAUSE OF DEATH		AGE GROUPS										
		TOTAL	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
RESIDUAL OF 740-759	OTHER CONGENITAL ANOMALIES	3.1	135.8	3.3	.5		.4	.7	1.4	1.3	3.2	3.0
	MALE....	4.2	188.1	2.5			.9	1.3	.7		5.2	6.5
	FEMALE..	2.1	80.2	4.0	1.0				2.1	2.5	1.7	1.0
760-779	XV. CERTAIN CAUSES OF MORTALITY IN EARLY INFANCY	6.1	395.4	2.6	.3	.5						
	MALE....	7.2	437.3	5.1	.5	.5						
	FEMALE..	5.0	350.8			.5						
	XVI. SYMPTOMS & ILL-DEFINED CONDITIONS	15.8	230.5	2.0		.2	.4	1.6	2.1	11.9	30.1	141.6
	MALE....	14.3	244.5	1.3		.5	.5	2.2	4.2	16.7	38.3	119.7
	FEMALE..	17.4	215.5	2.7			.4	.9		7.6	23.5	154.6
797	SENILITY	.5										7.8
	MALE....	.2										4.9
	FEMALE..	.7										9.5
798.0	SUDDEN INFANT DEATH SYNDROME	3.3	225.6									
	MALE....	3.8	244.5									
	FEMALE..	2.9	205.5									
RESIDUAL OF 780-799	OTHER SYMPTOMS & ILL-DEFINED CONDITIONS	12.0	4.9	2.0		.2	.4	1.6	2.1	11.9	30.1	133.8
	MALE....	10.2		1.3		.5	.5	2.2	4.2	16.7	38.3	114.8
	FEMALE..	13.8	10.0	2.7			.4	.9		7.6	23.5	145.0
	XVII. ACCIDENTS, POISONING, & VIOLENCE	64.9	12.1	21.5	15.6	71.5	76.2	67.0	58.7	57.9	83.8	178.2
	MALE....	93.5	14.1	28.0	20.6	108.6	112.8	97.6	91.3	90.9	123.0	273.3
	FEMALE..	37.3	10.0	14.6	10.3	32.8	40.1	36.2	26.2	27.8	52.0	122.1
800-949	ACCIDENTS	41.2	7.3	16.9	12.6	47.0	45.1	36.2	31.5	37.1	48.1	142.8
	MALE....	57.7	9.4	24.2	16.6	69.2	69.1	53.5	46.0	61.2	67.2	194.1
	FEMALE..	25.4	5.0	9.3	8.3	23.8	21.4	18.8	17.0	15.2	32.7	112.6
810-825	MOTOR VEHICLE ACCIDENTS	22.0	2.4	7.8	7.5	37.3	28.2	20.1	18.4	15.0	24.1	37.8
	MALE....	29.6		10.2	8.8	53.1	40.6	27.2	22.6	21.3	28.9	53.4
	FEMALE..	14.7	5.0	5.3	6.2	20.8	16.0	13.0	14.1	9.3	20.1	28.6
830-838	WATER TRANSPORT ACCIDENTS	1.0			.8	.5	1.1	1.3	.7	3.1	.9	.6
	MALE....	1.8			1.0	.5	2.3	2.7	.7	6.5	2.1	1.6
	FEMALE..	.2			.5	.5			.7			
840-845	AIR TRANSPORT ACCIDENTS	.6			.3	.2	.4	.9	.7	2.2	.5	
	MALE....	1.0			.5	.5	.5	.9	1.4	4.6	1.0	
	FEMALE..	.2					.4	.9				
850-869	POISONING ACCIDENTS	1.8		.7		1.0	3.6	3.1	1.8	.9	.5	3.6
	MALE....	2.6				1.9	5.4	5.4	2.8	1.9		3.2
	FEMALE..	.9		1.3			1.8	.9	.7		.8	3.8

TABLE 4-7. RESIDENT DEATH RATES FOR SELECTED CAUSES BY AGE AND SEX, OREGON, 1989-Continued

	CAUSE OF DEATH		AGE GROUPS										
			TOTAL	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
880-888	ACCIDENTAL FALLS		6.1	2.4		.5	.7	.9	1.3	1.4	7.1	8.6	69.0
		MALE....	6.7	4.7		.5	1.4	.9	1.8	2.1	11.1	12.4	85.7
		FEMALE..	5.6			.5		.9	.9	.7	3.4	5.9	59.2
890-899	FIRE & FLAME ACCIDENTS		.9		.7	.5		.7	.9	.4	1.3	1.4	5.4
		MALE....	1.4		1.3	1.0		1.4	1.3	.7	1.9	1.0	9.7
		FEMALE..	.5						.4		.8	1.7	2.9
910	DROWNING & SUBMERSION		2.0		5.2	1.3	3.4	2.5	1.3	1.8		3.2	.6
		MALE....	3.6		7.6	2.0	6.2	3.6	2.2	3.5		7.2	1.6
		FEMALE..	.6		2.7	.5	.5	1.3	.4				
950-959	SUICIDES		16.4			1.0	17.5	18.6	20.8	19.5	15.5	29.6	31.8
		MALE....	26.2			2.0	29.4	27.5	30.8	32.6	22.3	49.6	71.2
		FEMALE..	7.1				5.0	9.8	10.7	6.4	9.3	13.4	8.6
960-978	HOMICIDES		5.2		3.3	1.8	5.6	8.5	7.4	5.7	4.0	4.6	3.0
		MALE....	6.9		2.5	1.5	7.1	11.7	8.9	9.2	6.5	5.2	6.5
		FEMALE..	3.6		4.0	2.1	4.0	5.3	5.8	2.1	1.7	4.2	1.0
980-989	INJURIES UNDETERMINED WHETHER		1.9	4.9	1.3	.3	1.5	4.0	2.7	2.1	1.3	1.4	.6
	ACCIDENTALLY OR	MALE....	2.7	4.7	1.3	.5	2.8	4.5	4.5	3.5	.9	1.0	1.6
	PURPOSELY INFLICTED	FEMALE..	1.2	5.0	1.3			3.6	.9	.7	1.7	1.7	

TABLE 4-8. DEATHS DUE TO EXTERNAL FACTORS, OREGON RESIDENTS, 1989

METHOD OF DEATH	TOTAL		UNINTENDED INJURIES		SUICIDES		HOMICIDES		LEGAL INTER-VENTION		UNDETER-MINED	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
TOTAL.....	1,810	100	1,151	64	459	25	142	8	4	0	54	3
FIREARMS.....	391	100	16	4	280	72	83	21	4	1	8	2
HANGING AND SUFFOCATION..	79	100	24	30	40	51	12	15	-	-	3	4
DROWNING AND BOATING.....	95	100	85	89	3	3	2	2	-	-	5	5
INGESTION OF SUBSTANCE.	183	100	50	27	108	59	-	-	-	-	25	14
CUTTING AND PIERCING.....	26	100	3	12	5	19	18	69	-	-	-	-
FALLS AND JUMPING.....	184	100	170	92	13	7	-	-	-	-	1	1
MOTOR VEHICLES.	616	100	614	100	2	0	-	-	-	-	-	-
OTHER.....	236	100	189	80	8	3	27	11	-	-	12	5

TABLE 4-9. RESIDENT DEATHS FROM SUICIDE, HOMICIDE, LEGAL INTERVENTION, AND EXTERNAL CAUSES UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED, BY AGE, SEX, AND METHOD, OREGON, 1989

METHOD OF DEATH	TOTAL DEATHS	AGE AND SEX GROUPS																	
		TOTAL		< 15		15-24		25-34		35-44		45-54		55-64		65-74		75+	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
SUICIDE	459	358	101	4	-	62	10	61	22	69	24	46	9	24	11	48	16	44	9
ALL POISONING	108	64	44	-	-	6	2	11	9	24	13	14	7	4	6	3	4	2	3
MEDICATIONS	66	34	32	-	-	4	1	3	6	14	8	10	5	1	6	2	4	-	2
AUTO EXHAUST	32	22	10	-	-	2	1	7	3	6	3	2	2	2	-	1	-	2	1
OTHER GAS	2	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
OTHER	8	6	2	-	-	-	-	1	-	2	2	2	-	1	-	-	-	-	-
HANGING	37	31	6	1	-	12	2	10	3	3	1	2	-	1	-	1	-	1	-
SUFFOCATION BY PLASTIC BAG	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
OTHER SUFFOCATION	1	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
DROWNING	3	2	1	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-
ALL FIREARMS	281	241	40	3	-	38	4	34	9	39	9	29	2	18	3	43	9	37	4
HANDGUNS	168	137	31	2	-	20	3	21	6	18	8	16	1	10	2	21	7	29	4
SHOTGUNS	42	38	4	-	-	9	1	4	1	4	1	4	-	4	-	9	1	4	-
RIFLES	65	60	5	1	-	8	-	9	2	15	-	9	1	4	1	10	1	4	-
OTHER AND UNSPECIFIED	6	6	-	-	-	1	-	-	-	2	-	-	-	-	-	3	-	-	-
CUTTING AND PIERCING	5	4	1	-	-	1	-	-	-	1	-	-	-	-	-	1	-	1	1
JUMPING FROM HIGH PLACES	13	9	4	-	-	2	-	5	1	1	1	-	-	-	1	-	1	1	-
OTHER	9	7	2	-	-	3	-	-	-	1	-	-	-	1	1	-	1	2	-
HOMICIDE	142	91	51	5	7	14	8	23	12	20	13	13	3	7	2	5	5	4	1
STRANGULATION AND HANGING	12	3	9	-	-	-	2	-	3	2	3	-	-	-	1	-	-	1	-
DROWNING	2	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL FIREARMS	83	55	28	2	4	10	4	16	4	11	7	7	3	5	1	3	5	1	-
HANDGUNS	41	27	14	1	4	6	1	8	2	4	3	5	1	2	-	1	3	-	-
SHOTGUNS	15	9	6	-	-	1	-	2	2	1	1	2	1	1	1	2	1	-	-
RIFLES	11	9	2	1	-	1	2	4	-	2	-	-	-	-	-	-	-	1	-
OTHER AND UNSPECIFIED	16	10	6	-	-	2	1	2	-	4	3	-	1	2	-	-	1	-	-
CUTTING AND PIERCING	18	13	5	-	1	4	-	1	3	4	1	3	-	-	-	-	-	1	-
CHILD BATTERING	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER	26	18	8	1	1	-	2	6	2	3	2	3	-	2	-	2	-	1	1
LEGAL INTERVENTION	4	4	-	-	-	1	-	3	-	-	-	-	-	-	-	-	-	-	-
FIREARMS	4	4	-	-	-	1	-	3	-	-	-	-	-	-	-	-	-	-	-
UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED	54	37	17	3	2	6	-	10	8	10	2	5	1	1	2	1	2	1	-
ALL POISONING	25	16	9	-	1	1	-	6	4	7	1	1	1	-	1	1	1	-	-
MEDICATIONS	21	13	8	-	1	1	-	4	4	7	1	-	-	-	1	1	1	-	-
AUTO EXHAUST	2	2	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-
OTHER GAS	1	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
OTHER	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
DROWNING	5	5	-	-	-	1	-	2	-	1	-	1	-	-	-	-	-	-	-
FIREARMS	8	8	-	1	-	4	-	1	-	-	-	2	-	-	-	-	-	-	-
OTHER	16	8	8	2	1	-	-	1	4	2	1	1	-	1	1	-	1	1	-

TABLE 4-10. RESIDENT UNINTENTIONAL INJURY DEATHS BY TYPE OR SOURCE OF INJURY, AGE GROUPS AND SEX, OREGON, 1989

TYPE OR SOURCE OF UNINTENTIONAL INJURY	TOTAL DEATHS	AGE AND SEX GROUPS																			
		< 1		1-4		5-14		15-24		25-34		35-44		45-54		55-64		65-74		75+	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL	1,151	2	1	19	7	34	16	146	48	153	48	120	42	65	24	66	18	65	39	120	118
TRANSPORTATION	664	-	1	8	4	21	13	115	43	99	37	70	32	35	21	35	11	31	24	34	30
MOTOR VEHICLE	614	-	1	8	4	18	12	112	42	90	36	61	29	32	20	23	11	28	24	33	30
WATERCRAFT	28	-	-	-	-	2	1	1	1	5	-	6	-	1	1	7	-	2	-	1	-
AIRCRAFT	16	-	-	-	-	1	-	1	-	1	1	2	2	2	-	5	-	1	-	-	-
RAILWAY	4	-	-	-	-	-	-	1	-	3	-	-	-	-	-	-	-	-	-	-	-
OTHER ROAD VEHICLE	2	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
POISONING	49	-	-	-	1	-	-	4	-	12	4	12	2	4	1	2	-	-	1	2	4
GAS	8	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	1	1	2
DRUGS AND MEDICINES	37	-	-	-	1	-	-	4	-	11	3	10	1	3	1	-	-	-	-	1	2
OTHER SOLIDS AND LIQUIDS	4	-	-	-	-	-	-	-	-	1	1	2	-	-	-	-	-	-	-	-	-
SUFFOCATION OR OBSTRUCTION	24	-	-	3	-	2	-	-	-	3	-	3	-	-	-	-	1	2	1	3	6
INHALATION OF FOOD	9	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	4
INHALATION OF OTHER MATERIAL	6	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1	1	2
MECHANICAL SUFFOCATON	9	-	-	2	-	2	-	-	-	3	-	2	-	-	-	-	-	-	-	-	-
MISCELLANEOUS	414	2	-	8	2	11	3	27	5	39	7	35	8	26	2	29	6	32	13	81	78
FALLS	170	1	-	-	-	1	1	3	-	2	2	4	2	3	1	12	4	12	7	53	62
FIRES	26	-	-	1	-	2	-	-	-	3	-	3	1	1	-	2	1	1	2	6	3
DROWNING	57	-	-	6	2	4	1	13	1	8	3	5	1	5	-	-	-	7	-	1	-
STRUCK BY OBJECT	44	-	-	-	-	1	-	2	1	14	-	14	-	4	-	3	-	4	-	1	-
MACHINERY	30	-	-	-	-	-	1	2	-	6	-	4	1	6	-	6	-	1	-	3	-
FIREARMS	16	-	-	1	-	3	-	6	1	4	-	1	-	-	-	-	-	-	-	-	-
ELECTRIC CURRENT	5	-	-	-	-	-	-	1	-	-	-	1	1	2	-	-	-	-	-	-	-
OTHER AND UNSPECIFIED	29	1	-	-	-	-	-	-	2	2	2	1	-	3	1	1	1	3	1	7	4
COMPLICATIONS OF MEDICAL PROCEDURES	26	-	-	-	-	-	-	-	-	-	-	-	2	1	-	2	-	3	2	8	8
LATE EFFECTS OF ACCIDENTS	11	-	-	-	-	-	-	-	-	-	-	2	-	1	-	3	-	1	1	2	1

TABLE 4-11. UNINTENTIONAL INJURY DEATHS OCCURRING IN OREGON BY TYPE OF INJURY AND AGE GROUPS, 1989

TYPE OF UNINTENTIONAL INJURY	TOTAL DEATHS	RATE	AGE GROUPS						
			< 1	1-4	5-14	15-24	25-44	45-64	65+
TOTAL	1,243	44.5	5	30	49	216	398	202	343
WORK ACCIDENTS	61	2.2	-	-	-	7	40	11	3
LOGGING	30	1.1	-	-	-	3	24	2	1
AGRICULTURE	4	.1	-	-	-	1	-	2	1
CONSTRUCTION	5	.2	-	-	-	-	3	1	1
MANUFACTURING	9	.3	-	-	-	2	5	2	-
TRANSPORTATION	5	.2	-	-	-	1	3	1	-
TRADE	2	.1	-	-	-	-	2	-	-
SERVICE	3	.1	-	-	-	-	1	2	-
OTHER AND UNSPECIFIED	3	.1	-	-	-	-	2	1	-
HOME ACCIDENTS	202	7.2	1	13	8	7	46	28	99
POISONING, SOLID, LIQUID	28	1.0	-	-	-	3	21	3	1
POISONING, GAS	6	.2	-	-	-	-	1	1	4
FALLS	84	3.0	1	-	1	-	1	11	70
FIRES	23	.8	-	-	2	-	7	4	10
DROWNING	14	.5	-	9	-	-	3	-	2
SUFFOCATION, INGESTION	5	.2	-	1	-	-	1	1	2
SUFFOCATION, MECHANICAL	7	.3	-	2	2	-	3	-	-
FIREARMS	8	.3	-	1	3	3	1	-	-
OTHER AND UNSPECIFIED	27	1.0	-	-	-	1	8	8	10
MOTOR VEHICLE	683	24.5	3	15	29	170	243	109	114
INJURY TO PEDESTRIAN	77	2.8	1	5	9	7	19	15	21
INJURY TO PEDAL CYCLIST	11	.4	-	-	2	2	6	-	1
COLLISION WITH TRAIN	4	.1	-	-	-	-	2	-	2
COLLISION WITH OTHER MOTOR VEHICLE	310	11.1	2	6	11	61	109	54	67
COLLISION WITH FIXED OBJECT	86	3.1	-	-	1	36	35	6	8
NON-COLLISION (LOSS OF CONTROL)	188	6.7	-	3	5	64	70	32	14
OTHER AND UNSPECIFIED	7	.3	-	1	1	-	2	2	1
PUBLIC ACCIDENT	238	8.5	-	1	12	31	63	48	83
RAILWAY TRANSPORTATION	6	.2	-	-	-	3	2	1	-
OTHER TRANSPORTATION	2	.1	-	-	-	-	2	-	-
WATER TRANSPORTATION	29	1.0	-	-	3	2	11	10	3
AIR TRANSPORTATION	23	.8	-	-	1	2	6	12	2
FALLS	52	1.9	-	-	1	3	8	6	34
FIRES	3	.1	-	1	-	-	-	-	2
DROWNING	45	1.6	-	-	5	14	16	5	5
FIREARMS	9	.3	-	-	-	4	5	-	-
OTHER AND UNSPECIFIED	69	2.5	-	-	2	3	13	14	37
UNCLASSIFIED	59	2.1	1	1	-	1	6	6	44

NOTE: RATES PER 100,000 POPULATION

TABLE 4-12. TOBACCO-RELATED DEATHS BY RESIDENCE COUNTY, OREGON, 1989

COUNTY OF RESIDENCE	TOTAL DEATHS	LINKED TO TOBACCO USE*		NOT LINKED TO TOBACCO USE		UNKNOWN	
		NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
TOTAL	24,679	5,559	22.5	12,634	51.2	6,486	26.3
BAKER	196	38	19.4	89	45.4	69	35.2
BENTON	426	80	18.8	265	62.2	81	19.0
CLACKAMAS	2,022	403	19.9	1,013	50.1	606	30.0
CLATSOP	337	75	22.3	155	46.0	107	31.8
COLUMBIA	286	60	21.0	130	45.5	96	33.6
COOS	700	192	27.4	308	44.0	200	28.6
CROOK	132	28	21.2	75	56.8	29	22.0
CURRY	190	53	27.9	85	44.7	52	27.4
DESCHUTES	586	122	20.8	242	41.3	222	37.9
DOUGLAS	890	208	23.4	313	35.2	369	41.5
GILLIAM	18	5	27.8	7	38.9	6	33.3
GRANT	82	21	25.6	40	48.8	21	25.6
HARNEY	86	29	33.7	33	38.4	24	27.9
HOOD RIVER	143	34	23.8	88	61.5	21	14.7
JACKSON	1,412	327	23.2	737	52.2	348	24.6
JEFFERSON	97	22	22.7	54	55.7	21	21.6
JOSEPHINE	755	180	23.8	428	56.7	147	19.5
KLAMATH	546	139	25.5	231	42.3	176	32.2
LAKE	77	22	28.6	34	44.2	21	27.3
LANE	2,271	530	23.3	1,095	48.2	646	28.4
LINCOLN	463	128	27.6	218	47.1	117	25.3
LINN	832	204	24.5	417	50.1	211	25.4
MALHEUR	252	51	20.2	106	42.1	95	37.7
MARION	2,062	462	22.4	1,203	58.3	397	19.3
MORROW	69	11	15.9	27	39.1	31	44.9
MULTNOMAH	5,691	1,293	22.7	3,036	53.3	1,362	23.9
POLK	413	83	20.1	242	58.6	88	21.3
SHERMAN	27	5	18.5	17	63.0	5	18.5
TILLAMOOK	236	72	30.5	101	42.8	63	26.7
UMATILLA	512	91	17.8	188	36.7	233	45.5
UNION	221	51	23.1	111	50.2	59	26.7
WALLOWA	81	13	16.0	39	48.1	29	35.8
WASCO	205	51	24.9	108	52.7	46	22.4
WASHINGTON	1,791	358	20.0	1,057	59.0	376	21.0
WHEELER	14	3	21.4	7	50.0	4	28.6
YAMHILL	558	115	20.6	335	60.0	108	19.4

* THE OREGON DEATH CERTIFICATE ASKS 'DID TOBACCO USE CONTRIBUTE TO THE DEATH?' FOLLOWED BY FOUR CHECK BOXES: YES, NO, PROBABLY, AND UNKNOWN. THIS CATEGORY INCLUDES DEATHS LISTED AS YES OR PROBABLY.

TABLE 4-13. TOBACCO-RELATED DEATHS BY CAUSE OF DEATH, OREGON RESIDENTS, 1989

SELECTED CAUSES OF DEATH	TOTAL DEATHS	LINKED TO TOBACCO USE*		NOT LINKED TO TOBACCO USE		UNKNOWN	
		NUMBER	%	NUMBER	%	NUMBER	%
TOTAL	24,679	5,559	22.5	12,634	51.2	6,486	26.3
TUBERCULOSIS (010-018, 137)	18	5	27.8	11	61.1	2	11.1
SEPTICEMIA (038)	92	10	10.9	64	69.6	18	19.6
AIDS (042-044)	135	7	5.2	103	76.3	25	18.5
OTHER INFECTIVE & PARASITIC DISEASES (RESIDUAL 001-139)	70	10	14.3	47	67.1	13	18.6
MALIGNANT NEOPLASMS (140-208)	5,819	1,789	30.7	2,740	47.1	1,290	22.2
BUCCAL CAVITY & PHARYNX (140-149)	84	51	60.7	17	20.2	16	19.0
DIGESTIVE ORGANS & PERITONEUM (150-159)	1,342	148	11.0	846	63.0	348	25.9
LARGE INTESTINE (153)	513	45	8.8	353	68.8	115	22.4
PANCREAS (157)	326	30	9.2	204	62.6	92	28.2
RESPIRATORY/INTRATHORACIC ORGANS (160-165)	1,794	1,361	75.9	184	10.3	249	13.9
BRONCHUS AND LUNG (162.2-162.9)	1,727	1,332	77.1	159	9.2	236	13.7
MALIGNANT MELANOMA (172)	79	3	3.8	65	82.3	11	13.9
OTHER SKIN (173)	18	6	33.3	6	33.3	6	33.3
BREAST (174-175)	443	26	5.9	328	74.0	89	20.1
GENITAL ORGANS (179-187)	699	48	6.9	483	69.1	168	24.0
CERVIX & UTERUS (179-182)	115	9	7.8	76	66.1	30	26.1
OVARY (183.0)	160	11	6.9	118	73.7	31	19.4
PROSTATE (185)	404	27	6.7	271	67.1	106	26.2
URINARY ORGANS (188-189)	222	40	18.0	112	50.5	70	31.5
LEUKEMIA (204-208)	219	14	6.4	149	68.0	56	25.6
BENIGN NEOPLASMS (210-229)	24	4	16.7	19	79.2	1	4.2
IN SITU, UNCERTAIN BEHAVIOR & UNSPECIFIED NATURE NEOPLASMS (230-239)	53	6	11.3	37	69.8	10	18.9
DIABETES MELLITUS (250)	450	66	14.7	266	59.1	118	26.2
ALZHEIMER'S DEMENTIA (290.1)	88	3	3.4	58	65.9	27	30.7
ALCOHOLIC PSYCHOSES & ALCOHOLISM (291, 303)	106	38	35.8	41	38.7	27	25.5
DRUG DEPENDENCE (304)	13	1	7.7	11	84.6	1	7.7
MENINGITIS (302-322)	7	1	14.3	4	57.1	2	28.6
ALZHEIMER'S DISEASE (331)	267	16	6.0	187	70.0	64	24.0
PARKINSON'S DISEASE (332)	130	8	6.2	87	66.9	35	26.9
EPILEPSY (345)	27	4	14.8	16	59.3	7	25.9
MAJOR CARDIOVASCULAR DISEASES (390-448)	10,338	2,117	20.5	4,860	47.0	3,361	32.5
DISEASES OF THE HEART (390-398, 402, 404-429)	7,494	1,665	22.2	3,367	44.9	2,462	32.9
RHEUMATIC FEVER & CHRONIC RHEUMATIC HEART DISEASE (390-398)	87	13	14.9	60	69.0	14	16.1
HYPERTENSIVE HEART DISEASE WITH OR WITHOUT RENAL DISEASE (402, 404)	218	32	14.7	120	55.0	66	30.3
ISCHEMIC HEART DISEASE (410-414)	5,442	1,329	24.4	2,314	42.5	1,799	33.1
MYOCARDIAL INFARCTION (410)	2,096	562	26.8	844	40.3	690	32.9
OTHER ACUTE & SUBACUTE (411)	9	2	22.2	2	22.2	5	55.6
CHRONIC ISCHEMIC HEART DISEASE (412-414)	3,337	765	22.9	1,468	44.0	1,104	33.1
ALL OTHER FORMS (415-429)	1,747	291	16.7	873	50.0	583	33.4
HYPERTENSION (401, 403)	139	22	15.8	85	61.2	32	23.0
CEREBROVASCULAR DISEASE (430-438)	2,006	285	14.2	1,072	53.4	649	32.4
SUBARACHNOID HEMORRHAGE (430)	79	10	12.7	49	62.0	20	25.3
INTRACEREBRAL & INTRACRANIAL HEMORRHAGES (431-432)	229	30	13.1	121	52.8	78	34.1
CEREBRAL THROMBOSIS & EMBOLISM (434)	314	39	12.4	163	51.9	112	35.7
ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE (436)	1,115	169	15.2	589	52.8	357	32.0
GENERALIZED ISCHEMIC CEREBROVASCULAR DISEASE (437)	143	16	11.2	92	64.3	35	24.5
ARTERIOSCLEROSIS (440)	355	55	15.5	202	56.9	98	27.6
OTHER DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES (441-448)	344	90	26.2	134	39.0	120	34.9
PNEUMONIA (480-486)	871	123	14.1	511	58.7	237	27.2
INFLUENZA (487)	53	4	7.5	41	77.4	8	15.1
BRONCHITIS, EMPHYSEMA, ASTHMA AND COPD (490-496)	1,272	934	73.4	157	12.3	181	14.2
CHRONIC AND UNSPECIFIED BRONCHITIS (490-491)	68	42	61.8	15	22.1	11	16.2
EMPHYSEMA (492)	244	205	84.0	13	5.3	26	10.7
ASTHMA (493)	112	31	27.7	53	47.3	28	25.0
CHRONIC OBSTRUCTIVE PULMONARY DISEASE (496)	830	653	78.7	65	7.8	112	13.5
GASTRIC, DUODENAL, OR PEPTIC ULCER (531-533)	69	11	15.9	40	58.0	18	26.1
HERNIA & INTESTINAL OBSTRUCTION (550-553, 560)	52	7	13.5	31	59.6	14	26.9
CIRRHOSIS OF THE LIVER (571)	263	54	20.5	147	55.9	62	23.6
ALCOHOLIC CIRRHOSIS (571.0-571.3)	213	48	22.5	117	54.9	48	22.5
DISEASES OF THE GALLBLADDER (574-576)	38	5	13.2	23	60.5	10	26.3
NEPHRITIS & NEPHROSIS (580-589)	127	16	12.6	80	63.0	31	24.4
INFECTIONS OF THE KIDNEY (590)	27	6	22.2	16	59.3	5	18.5
COMPLICATIONS OF PREGNANCY, CHILDBIRTH, & THE PUERPERIUM (630-676)	4	1	25.0	2	50.0	1	25.0
CONGENITAL ANOMALIES (740-759)	121	8	6.6	98	81.0	15	12.4
CERTAIN CAUSES IN EARLY INFANCY (760-779)	170	12	7.1	138	81.2	20	11.8
UNINTENTIONAL INJURIES (800-949)	1,151	40	3.5	918	79.8	193	16.8
MOTOR VEHICLE-RELATED (810-825)	614	8	1.3	508	82.7	98	16.0
SUICIDES (950-959)	459	11	2.4	390	85.0	58	12.6
HOMICIDES (960-978)	146	-	-	132	90.4	14	9.6
INJURIES UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED (980-989)	54	-	-	45	83.3	9	16.7

* THE OREGON DEATH CERTIFICATE ASKS 'DID TOBACCO USE CONTRIBUTE TO THE DEATH?' FOLLOWED BY FOUR CHECK BOXES: YES, NO, PROBABLY, AND UNKNOWN THIS CATEGORY INCLUDES DEATHS LISTED YES OR PROBABLY

TABLE 4-14. DEATHS BY COUNTY OF RESIDENCE, AGE AND SEX, OREGON, 1989

COUNTY OF RESIDENCE	TOTAL	SEX AND AGE GROUPS									
		TOTAL		UNDER 1		1-4		5-14		15-24	
		MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE
TOTAL.....	24,679	12,864	11,815	215	149	41	26	64	34	278	88
BAKER.....	196	107	89	-	1	-	-	1	-	1	-
BENTON.....	426	200	226	2	4	-	1	1	1	4	2
CLACKAMAS..	2,022	1,012	1,010	25	10	7	3	6	5	19	10
CLATSOP....	337	179	158	1	-	1	-	-	-	5	-
COLUMBIA...	286	159	127	2	-	-	-	1	1	3	1
COOS.....	700	387	313	3	4	3	2	3	3	8	2
CROOK.....	132	78	54	-	-	1	-	-	-	-	-
CURRY.....	190	102	88	2	-	-	-	-	-	2	-
DESCHUTES..	586	306	280	8	5	2	-	4	2	6	7
DOUGLAS....	890	527	363	8	5	-	2	3	2	16	5
GILLIAM....	18	9	9	-	-	-	-	-	-	-	-
GRANT.....	82	43	39	-	-	1	-	-	-	2	-
HARNEY.....	86	53	33	-	-	-	-	-	-	1	-
HOOD RIVER.	143	78	65	-	-	1	-	-	-	-	1
JACKSON....	1,412	732	680	10	7	4	4	2	-	17	1
JEFFERSON..	97	62	35	2	2	1	-	-	1	1	2
JOSEPHINE..	755	383	372	5	3	1	2	3	-	4	2
KLAMATH....	546	305	241	6	5	1	-	-	-	7	1
LAKE.....	77	42	35	-	-	-	-	-	-	2	1
LANE.....	2,271	1,173	1,098	7	14	2	2	4	1	30	6
LINCOLN....	463	257	206	2	4	-	1	1	-	2	1
LINN.....	832	466	366	4	4	-	1	3	-	14	7
MALHEUR....	252	131	121	3	2	-	-	1	2	1	-
MARION.....	2,062	1,072	990	20	17	4	2	2	2	38	9
MORROW.....	69	40	29	3	1	-	-	2	1	1	2
MULTNOMAH..	5,691	2,809	2,882	59	45	5	3	14	8	51	13
POLK.....	413	213	200	4	-	-	-	-	1	2	-
SHERMAN....	27	10	17	-	-	1	1	-	-	-	-
TILLAMOOK..	236	137	99	3	1	2	-	1	-	3	1
UMATILLA...	512	291	221	8	1	-	-	4	1	7	1
UNION.....	221	125	96	3	3	1	-	1	1	2	1
WALLOWA....	81	46	35	-	1	-	-	-	-	1	-
WASCO.....	205	107	98	1	-	-	-	-	-	1	-
WASHINGTON.	1,791	927	864	22	9	1	2	5	1	21	10
WHEELER....	14	7	7	-	-	-	-	-	-	-	-
YAMHILL....	558	289	269	2	1	2	-	2	1	6	2

- QUANTITY IS ZERO

TABLE 4-14. DEATHS, 1989 CONTINUED

COUNTY OF RESIDENCE	SEX AND AGE GROUPS											
	25-34		35-44		45-54		55-64		65-74		75+	
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE
TOTAL.....	383	160	537	268	672	378	1,604	965	3,315	2,261	5,755	7,486
BAKER.....	3	-	1	3	4	3	13	4	32	16	52	62
BENTON.....	13	6	8	8	7	8	26	14	50	46	89	136
CLACKAMAS..	29	19	43	20	69	32	139	82	223	185	452	644
CLATSOP....	6	1	9	-	14	3	21	17	41	33	81	104
COLUMBIA...	4	3	7	1	10	6	19	12	46	23	67	80
COOS.....	7	4	11	7	23	16	63	30	107	63	159	182
CROOK.....	3	-	2	1	3	-	9	3	17	10	43	40
CURRY.....	3	-	6	2	1	7	17	11	33	24	38	44
DESCHUTES..	6	6	6	7	11	11	37	20	81	65	145	157
DOUGLAS....	15	3	24	7	26	10	77	32	143	92	215	205
GILLIAM....	-	-	-	-	-	-	-	1	4	2	5	6
GRANT.....	-	-	3	4	6	2	10	5	6	3	15	25
HARNEY.....	-	-	-	-	3	2	5	5	15	5	29	21
HOOD RIVER.	4	-	4	1	1	1	10	4	19	12	39	46
JACKSON....	14	12	24	19	40	23	85	55	194	141	342	418
JEFFERSON..	2	-	1	1	7	2	11	1	20	12	17	14
JOSEPHINE..	7	5	16	8	15	11	39	28	102	72	191	241
KLAMATH....	14	3	14	9	15	10	44	26	86	44	118	143
LAKE.....	2	-	3	-	1	-	6	2	13	8	15	24
LANE.....	37	17	50	32	56	39	146	86	312	215	529	686
LINCOLN....	9	4	11	5	11	5	32	19	82	55	107	112
LINN.....	16	3	18	1	17	16	61	30	118	66	215	238
MALHEUR....	1	1	4	2	4	4	15	14	36	21	66	75
MARION.....	27	11	47	18	45	26	122	81	282	175	485	649
MORROW.....	2	1	3	-	1	2	4	5	5	7	19	10
MULTNOMAH..	97	39	153	66	180	86	345	219	699	520	1,206	1,883
POLK.....	8	2	5	6	7	1	22	22	56	32	109	136
SHERMAN....	1	-	-	1	-	1	1	1	3	3	4	10
TILLAMOOK..	1	1	4	4	6	5	19	11	43	21	55	55
UMATILLA...	8	2	9	5	16	8	36	22	80	50	123	131
UNION.....	2	-	2	1	9	3	8	4	33	17	64	66
WALLOWA....	1	-	2	-	-	2	5	2	14	11	23	19
WASCO.....	2	1	4	-	2	5	14	8	27	21	56	63
WASHINGTON.	33	12	34	23	53	24	106	76	219	142	433	565
WHEELER....	-	-	-	-	-	-	1	1	3	4	3	2
YAMHILL....	6	4	9	6	9	4	36	12	71	45	146	194

- QUANTITY IS ZERO

TABLE 4-15. LEADING CAUSES OF DEATH BY COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	TOTAL	DISEASES OF THE HEART	MALIGNANT NEOPLASMS	CEREBROVASCULAR DISEASE	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	UNINTENDED INJURIES	INFLUENZA AND PNEUMONIA	SUICIDE	DIABETES	ARTERIOSCLEROSIS
TOTAL	24,679	7,482	5,819	2,006	1,272	1,151	924	459	450	355
RATE 1/	884.2	268.1	208.5	71.9	45.6	41.2	33.1	16.4	16.1	12.7
BAKER	196	56	43	20	10	18	7	1	1	7
BENTON	426	126	103	30	23	20	17	9	7	6
CLACKAMAS	2,022	647	466	172	88	98	102	34	35	39
CLATSOP	337	109	81	24	14	15	22	6	2	11
COLUMBIA	286	98	61	32	13	18	8	2	6	2
COOS	700	211	195	43	42	32	18	12	8	12
CROOK	132	37	37	9	5	11	4	-	1	6
CURRY	190	53	51	14	8	9	3	5	7	2
DESCHUTES	586	166	149	58	20	27	18	13	18	18
DOUGLAS	890	280	223	54	61	52	24	14	26	5
GILLIAM	18	6	6	1	1	-	3	-	-	-
GRANT	82	24	21	6	4	5	1	3	2	-
HARNEY	86	36	13	5	11	6	1	1	1	1
HOOD RIVER	143	48	29	8	9	10	6	-	3	2
JACKSON	1,412	425	369	113	69	67	56	27	18	16
JEFFERSON	97	31	24	3	4	8	3	3	2	1
JOSEPHINE	755	223	171	64	45	38	30	9	8	11
KLAMATH	546	151	111	40	40	29	25	14	12	5
LAKE	77	27	19	7	2	8	4	1	-	-
LANE	2,271	645	554	181	148	110	71	49	52	31
LINCOLN	463	146	126	36	23	24	16	9	3	12
LINN	832	246	199	66	45	48	26	18	15	8
MALHEUR	252	88	53	20	15	14	7	4	5	-
MARION	2,062	665	466	203	94	96	79	30	41	17
MORROW	69	17	15	2	4	11	2	1	1	-
MULTNOMAH	5,691	1,684	1,272	479	267	194	211	117	102	80
POLK	413	130	87	41	27	19	13	6	10	8
SHERMAN	27	9	12	1	-	1	1	1	-	-
TILLAMOOK	236	72	65	12	12	9	5	1	3	4
UMATILLA	512	137	125	40	28	29	24	10	10	6
UNION	221	63	48	17	18	11	10	6	5	3
WALLOWA	81	30	15	4	3	4	3	2	1	-
WASCO	205	63	47	15	11	11	19	3	3	1
WASHINGTON	1,791	534	441	145	84	71	55	38	32	32
WHEELER	14	3	6	-	-	-	-	2	-	1
YAMHILL	558	196	116	41	24	28	30	8	10	8

- QUANTITY IS ZERO

1/ RATES PER 100,000 POPULATION

TABLE 4-15. LEADING CAUSES OF DEATH BY COUNTY OF RESIDENCE, OREGON, 1989, CONTINUED

COUNTY OF RESIDENCE	ALZHEIMER'S DISEASE	OTHER DISEASES OF THE ARTERIES	ALCOHOLISM, ALCOHOLIC CIRRHOSIS, ALCOHOLIC PSYCHOSIS, ETC.	PERINATAL CONDITIONS	HOMICIDE AND LEGAL INTERVENTION	HYPERTENSION WITH OR WITHOUT RENAL DISEASE	AIDS	PARKINSONISM	NEHPRITIS & NEPHROSIS	CONGENITAL ANOMALIES	SUDDEN INFANT DEATH SYNDROME	ALL OTHER CAUSES
TOTAL	355	344	334	170	146	139	135	130	127	121	93	2,667
RATE 1/	12.7	12.3	12.0	6.1	5.2	5.0	4.8	4.7	4.6	4.3	3.3	95.6
BAKER	3	3	-	1	1	1	-	1	2	-	-	21
BENTON	5	4	3	2	6	3	2	5	-	2	1	52
CLACKAMAS	28	22	19	17	6	6	9	13	6	11	8	196
CLATSOP	7	6	7	1	2	2	-	1	1	-	-	26
COLUMBIA	3	2	2	2	-	1	2	1	2	3	-	28
COOS	10	13	10	4	2	2	3	2	-	4	2	75
CROOK	1	3	1	-	-	2	-	1	-	-	-	14
CURRY	1	4	3	-	-	1	-	1	4	1	1	22
DESCHUTES	4	10	2	7	2	2	1	3	3	5	2	58
DOUGLAS	6	11	16	6	4	8	2	4	9	5	2	78
GILLIAM	-	-	-	-	-	-	-	-	-	-	-	1
GRANT	-	-	2	-	2	-	2	-	-	-	-	10
HARNEY	-	3	2	-	-	-	-	-	1	-	-	5
HOOD RIVER	3	2	2	-	-	-	-	-	2	-	-	19
JACKSON	23	19	23	7	7	3	3	6	4	5	5	147
JEFFERSON	-	1	1	1	1	2	-	-	1	1	2	8
JOSEPHINE	20	14	16	3	5	2	2	1	3	7	2	81
KLAMATH	12	9	8	4	6	5	1	3	1	4	-	66
LAKE	-	3	-	-	-	1	-	-	-	-	-	5
LANE	49	28	24	10	9	12	8	18	11	4	8	249
LINCOLN	4	4	6	2	1	1	1	1	-	3	1	44
LINN	17	13	8	5	6	5	4	6	9	3	2	83
MALHEUR	2	5	5	2	1	3	-	2	3	1	2	20
MARION	19	25	26	18	11	20	5	4	7	13	8	215
MORROW	3	-	1	2	-	1	-	-	2	1	-	6
MULTNOMAH	74	72	113	47	50	35	72	36	41	32	32	681
POLK	5	11	1	2	3	2	-	2	1	2	-	43
SHERMAN	-	-	-	-	1	-	-	-	-	-	-	1
TILLAMOOK	3	3	6	2	2	2	-	-	1	3	-	31
UMATILLA	7	6	5	7	3	2	2	2	1	2	-	66
UNION	3	4	-	2	1	-	-	-	-	1	3	26
WALLOWA	1	2	-	-	1	-	-	-	1	-	1	13
WASCO	4	1	1	-	1	1	-	3	1	-	1	19
WASHINGTON	30	30	18	13	10	11	16	11	6	7	10	197
WHEELER	-	-	-	-	-	-	-	-	-	-	-	2
YAMHILL	8	11	3	3	2	3	-	3	4	1	-	59

- QUANTITY IS ZERO

1/ RATES PER 100,000 POPULATION

TABLE 4-16. DEATHS BY COUNTY OF RESIDENCE BY SEX, RACE AND HISPANIC ETHNICITY, OREGON RESIDENTS, 1989

COUNTY OF RESIDENCE	TOTAL	MALE	FEMALE	RACE							HISPANIC *
				WHITE	AFRICAN AMERICAN	INDIAN	CHINESE	JAPANESE	OTHER ASIAN & PACIFIC ISLANDER	OTHER NON-WHITE & N.S.*	
TOTAL	24,679	12,864	11,815	23,952	352	166	54	45	63	47	212
BAKER	196	107	89	195	-	1	-	-	-	-	2
BENTON	426	200	226	423	-	1	1	-	-	1	-
CLACKAMAS	2,022	1,012	1,010	2,009	7	-	3	1	1	1	15
CLATSOP	337	179	158	334	-	-	-	-	-	3	-
COLUMBIA	286	159	127	286	-	-	-	-	-	-	-
COOS	700	387	313	687	3	8	-	-	1	1	2
CROOK	132	78	54	130	1	1	-	-	-	-	-
CURRY	190	102	88	188	-	2	-	-	-	-	-
DESCHUTES	586	306	280	582	-	2	1	1	-	-	2
DOUGLAS	890	527	363	881	2	4	1	1	-	1	2
GILLIAM	18	9	9	18	-	-	-	-	-	-	-
GRANT	82	43	39	82	-	-	-	-	-	-	-
HARNEY	86	53	33	83	-	3	-	-	-	-	-
HOOD RIVER	143	78	65	136	1	-	-	5	1	-	3
JACKSON	1,412	732	680	1,407	1	1	-	-	2	1	18
JEFFERSON	97	62	35	77	-	20	-	-	-	-	3
JOSEPHINE	755	383	372	746	-	5	1	1	1	1	5
KLAMATH	546	305	241	520	3	20	-	-	1	2	9
LAKE	77	42	35	76	1	-	-	-	-	-	-
LANE	2,271	1,173	1,098	2,246	11	6	1	-	4	3	8
LINCOLN	463	257	206	453	-	8	-	-	1	1	1
LINN	832	466	366	818	3	9	-	-	1	1	6
MALHEUR	252	131	121	244	-	-	-	8	-	-	15
MARION	2,062	1,072	990	2,026	11	14	3	-	6	2	46
MORROW	69	40	29	69	-	-	-	-	-	-	1
MULTNOMAH	5,691	2,809	2,882	5,242	299	35	39	21	33	22	43
POLK	413	213	200	410	-	1	-	1	1	-	9
SHERMAN	27	10	17	27	-	-	-	-	-	-	-
TILLAMOOK	236	137	99	234	1	-	-	-	-	1	-
UMATILLA	512	291	221	499	1	11	-	-	1	-	4
UNION	221	125	96	217	1	3	-	-	-	-	-
WALLOWA	81	46	35	81	-	-	-	-	-	-	-
WASCO	205	107	98	203	-	2	-	-	-	-	2
WASHINGTON	1,791	927	864	1,755	6	6	4	6	9	5	12
WHEELER	14	7	7	14	-	-	-	-	-	-	-
YAMHILL	558	259	269	554	-	3	-	-	-	1	4

* NOTE: OTHER NON-WHITE INCLUDES GROUPS WHERE FEWER THAN 20 DEATHS WERE RECORDED (E.G. HAWAIIAN, FILIPINO). DECEDENTS ARE CLASSIFIED BY RACE AND ETHNICITY. MOST HISPANIC DECEDENTS ARE WHITE (198) WITH THE REMAINDER BELONGING TO OTHER RACES.

TABLE 4-17. DEATHS DUE TO UNINTENDED INJURY BY PRINCIPAL CLASSES AND COUNTY OF INJURY, OREGON RESIDENTS, 1989

COUNTY OF UNINTENDED INJURY	TOTAL UNINTENDED INJURIES	DEATH RATE 1/	MOTOR VEHICLE	HOME	OCCUPATIONAL	PUBLIC	UNCLASSIFIED
TOTAL.....	1,151	41.2	614	196	59	223	59
BAKER.....	15	97.7+	4	7	2	2	-
BENTON.....	11	15.5-	7	-	1	3	-
CLACKAMAS..	70	26.4-	39	17	4	9	1
CLATSOP....	15	42.6	10	2	1	2	-
COLUMBIA...	22	59.0	12	4	2	4	-
COOS.....	17	28.2	13	1	-	3	-
CROOK.....	9	66.2	4	4	-	1	-
CURRY.....	14	72.9	7	-	1	6	-
DESCHUTES..	25	35.4	16	4	1	4	-
DOUGLAS....	74	77.9+	38	6	11	19	-
GILLIAM....	-	-	-	-	-	-	-
GRANT.....	3	36.1	3	-	-	-	-
HARNEY.....	7	94.6	4	2	1	-	-
HOOD RIVER.	8	47.1	5	2	-	1	-
JACKSON....	52	35.9	35	9	2	6	-
JEFFERSON..	7	57.9	5	-	-	2	-
JOSEPHINE..	25	38.9	9	10	3	3	-
KLAMATH....	26	44.4	14	2	3	7	-
LAKE.....	4	54.1	3	-	1	-	-
LANE.....	94	33.6	62	11	8	13	-
LINCOLN....	27	68.4	14	3	1	9	-
LINN.....	53	58.9	33	10	1	9	-
MALHEUR....	12	46.2	7	4	-	1	-
MARION.....	82	36.6	51	16	3	12	-
MORROW.....	8	106.7	7	-	1	-	-
MULTNOMAH..	161	27.7-	82	48	2	25	4
POLK.....	19	39.7	11	6	1	1	-
SHERMAN....	3	150.0	-	1	-	2	-
TILLAMOOK..	19	88.0+	6	3	2	8	-
UMATILLA...	29	49.9	22	2	-	5	-
UNION.....	10	42.9	4	3	-	3	-
WALLOWA....	1	13.9	1	-	-	-	-
WASCO.....	7	33.2	4	1	-	2	-
WASHINGTON.	48	16.3-	25	15	3	5	-
WHEELER....	2	142.9	1	-	-	1	-
YAMHILL....	16	26.4	12	1	-	3	-
NOT STATED.	92	-	3	1	-	35	53
OUT-OF-STATE....	64	-	41	1	4	17	1

- QUANTITY IS ZERO

1/ RATE PER 100,000 POPULATION

NOTE: SYMBOL - DENOTES RATE IS SIGNIFICANTLY BELOW STATE RATE
SYMBOL + DENOTES RATE IS SIGNIFICANTLY GREATER THAN STATE RATE

TABLE 4-18. ALL DEATHS AND MEDICAL EXAMINER'S CASES BY COUNTY OF OCCURRENCE AND AUTOPSY STATUS, OREGON, 1989

COUNTY OF OCCURRENCE	TOTAL DEATHS	TOTAL DEATHS AUTOPSIED	PERCENT OF TOTAL DEATHS AUTOPSIED	M.E. CASES	M.E. CASES AUTOPSIED	PERCENT OF ME CASES AUTOPSIED
TOTAL	25,182	2,338	9.3	3,736	1,298	34.7
BAKER	171	7	4.1	45	6	13.3
BENTON	455	32	7.0	46	16	34.8
CLACKAMAS	1,895	144	7.6	245	93	38.0
CLATSOP	288	9	3.1	52	6	11.5
COLUMBIA	164	8	4.9	33	6	18.2
COOS	631	16	2.5	76	12	15.8
CROOK	103	5	4.9	24	2	8.3
CURRY	145	9	6.2	38	9	23.7
DESCHUTES	660	40	6.1	129	23	17.8
DOUGLAS	951	74	7.8	167	25	15.0
GILLIAM	7	0	.0	1	0	.0
GRANT	77	6	7.8	23	5	21.7
HARNEY	82	4	4.9	20	4	20.0
HOOD RIVER	139	4	2.9	19	4	21.1
JACKSON	1,488	190	12.8	220	156	70.9
JEFFERSON	85	11	12.9	25	10	40.0
JOSEPHINE	733	63	8.6	88	50	56.8
KLAMATH	563	47	8.3	124	42	33.9
LAKE	68	5	7.4	17	5	29.4
LANE	2,374	214	9.0	247	121	49.0
LINCOLN	410	20	4.9	93	10	10.8
LINN	702	36	5.1	120	27	22.5
MALHEUR	290	29	10.0	54	19	35.2
MARION	2,015	140	6.9	243	79	32.5
MORROW	32	3	9.4	12	2	16.7
MULTNOMAH	6,968	957	13.7	1,052	438	41.6
POLK	269	13	4.8	48	11	22.9
SHERMAN	9	3	33.3	4	2	50.0
TILLAMOOK	205	17	8.3	50	15	30.0
UMATILLA	451	26	5.8	99	17	17.2
UNION	211	7	3.3	42	7	16.7
WALLOWA	51	3	5.9	12	3	25.0
WASCO	235	9	3.8	23	4	17.4
WASHINGTON	1,770	170	9.6	192	65	33.9
WHEELER	9	0	.0	7	0	.0
YAMHILL	476	17	3.6	46	4	8.7

TABLE 4-19. DEATHS OCCURRING IN OREGON BY COUNTY OF RESIDENCE AND DISPOSAL OF REMAINS, 1989

COUNTY OF RESIDENCE	TOTAL	BURIAL	CREMATION	MAUSOLEUM	REMOVAL	OTHER
TOTAL	25,182	12,233	9,393	1,480	1,983	93
PERCENT	100.0	48.6	37.3	5.9	7.9	0.4
BAKER	170	122	41	-	7	-
BENTON	417	196	190	11	18	2
CLACKAMAS	1,998	951	751	173	110	13
CLATSOP	323	156	144	7	14	2
COLUMBIA	237	147	69	8	12	1
COOS	691	344	288	14	40	5
CROOK	131	85	38	1	5	2
CURRY	183	62	111	-	8	2
DESCHUTES	578	251	275	16	36	-
DOUGLAS	882	455	376	15	36	-
GILLIAM	17	12	2	-	3	-
GRANT	79	46	31	-	2	-
HARNEY	84	67	17	-	-	-
HOOD RIVER	138	84	37	8	8	1
JACKSON	1,397	590	679	42	85	1
JEFFERSON	94	69	24	-	1	-
JOSEPHINE	739	306	353	13	66	1
KLAMATH	538	271	238	5	23	1
LAKE	77	44	25	-	8	-
LANE	2,247	1,064	1,007	78	91	7
LINCOLN	456	165	246	25	15	5
LINN	824	511	243	36	30	4
MALHEUR	211	138	13	-	59	1
MARION	2,029	1,081	706	131	104	7
MORROW	61	47	1	-	12	1
MULTNOMAH	5,598	2,650	1,958	646	326	18
POLK	404	229	143	15	15	2
SHERMAN	26	18	7	1	-	-
TILLAMOOK	235	119	98	11	7	-
UMATILLA	421	292	34	11	84	-
UNION	202	146	9	2	45	-
WALLOWA	68	49	9	1	9	-
WASCO	203	127	56	8	11	1
WASHINGTON	1,762	807	695	150	102	8
WHEELER	14	11	3	-	-	-
YAMHILL	552	324	159	40	25	4
OUT-OF-STATE	1,096	197	317	12	566	4

TABLE 4-20. DEATHS BY SELECTED CAUSES BY CITY, OREGON RESIDENTS, 1989

SELECTED CAUSES OF DEATH	OREGON NUMBER	OREGON RATE	CITY OF RESIDENCE					
			PORTLAND		EUGENE		SALEM	
			NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
TOTAL	24,679	884.2	4,653	1076.6	958	872.6	1,169	1170.6
TUBERCULOSIS (010-018, 137)	18	.6	6	1.4	2	1.8	1	1.0
SEPTICEMIA (038)	92	3.3	20	4.6	2	1.8	4	4.0
AIDS (042-044)	135	4.8	69	16.0	5	4.6	4	4.0
MEASLES (055)	-	-	-	-	-	-	-	-
VIRAL HEPATITIS (070)	25	.9	8	1.9	-	-	1	1.0
OTHER INFECTIVE & PARASITIC DISEASES (RESIDUAL 001-139)	70	2.5	18	4.2	3	2.7	-	-
MALIGNANT NEOPLASMS (140-208)	5,819	208.5	1,020	236.0	211	192.2	254	254.4
BUCCAL CAVITY & PHARYNX (140-149)	84	3.0	19	4.4	1	.9	3	3.0
DIGESTIVE ORGANS & PERITONEUM (150-159)	1,342	48.1	225	52.1	36	32.8	70	70.1
LARGE INTESTINE (153)	513	18.4	86	19.9	17	15.5	36	36.1
PANCREAS (157)	326	11.7	56	13.0	7	6.4	12	12.0
RESPIRATORY/INTRATHORACIC ORGANS (160-165)	1,794	64.3	312	72.2	59	53.7	63	63.1
BRONCHUS AND LUNG (162.2-162.9)	1,727	61.9	296	68.5	57	51.9	60	60.1
MALIGNANT MELANOMA (172)	79	2.8	14	3.2	5	4.6	4	4.0
OTHER SKIN (173)	18	.6	5	1.2	-	-	1	1.0
BREAST (174-175)	443	15.9	82	19.0	19	17.3	22	22.0
GENITAL ORGANS (179-187)	699	25.0	106	24.5	26	23.7	28	28.0
CERVIX & UTERUS (179-182)	115	4.1	15	3.5	4	3.6	8	8.0
OVARY (183.0)	160	5.7	30	6.9	6	5.5	7	7.0
PROSTATE (185)	404	14.5	58	13.4	16	14.6	11	11.0
URINARY ORGANS (188-189)	222	8.0	35	8.1	10	9.1	11	11.0
LEUKEMIA (204-208)	219	7.8	37	8.6	6	5.5	10	10.0
BENIGN NEOPLASMS (210-229)	24	.9	5	1.2	1	.9	2	2.0
IN SITU, UNCERTAIN BEHAVIOR & UNSPECIFIED NATURE NEOPLASMS (230-239)	53	1.9	6	1.4	3	2.7	2	2.0
DIABETES MELLITUS (250)	450	16.1	86	19.9	18	16.4	26	26.0
NUTRITIONAL DEFICIENCIES (260-269)	28	1.0	7	1.6	-	-	3	3.0
ANEMIAS (280-285)	32	1.1	7	1.6	1	.9	1	1.0
ALZHEIMER'S DEMENTIA (290.1)	88	3.2	10	2.3	8	7.3	4	4.0
ALCOHOLIC PSYCHOSES & ALCOHOLISM (291, 303)	106	3.8	30	6.9	2	1.8	8	
DRUG DEPENDENCE (304)	13	.5	6	1.4	-	-	-	
MENINGITIS (302-322)	7	.3	1	.2	-	-	-	
ALZHEIMER'S DISEASE (331)	267	9.6	53	12.3	26	23.7	8	8.0
PARKINSON'S DISEASE (332)	130	4.7	25	5.8	9	8.2	4	4.0
EPILEPSY (345)	27	1.0	6	1.4	1	.9	1	1.0
MAJOR CARDIOVASCULAR DISEASES (390-448)	10,338	370.4	1,939	448.7	375	341.6	537	537.8
DISEASES OF THE HEART (390-398, 402, 404-429)	7,494	268.5	1,394	322.6	268	244.1	370	370.5
RHEUMATIC FEVER & CHRONIC RHEUMATIC HEART DISEASE (390-398)	87	3.1	15	3.5	3	2.7	4	4.0
HYPERTENSIVE HEART DISEASE WITH OR WITHOUT RENAL DISEASE (402, 404)	218	7.8	41	9.5	9	8.2	18	18.0
ISCHEMIC HEART DISEASE (410-414)	5,442	195.0	1,024	236.9	186	169.4	269	269.4
MYOCARDIAL INFARCTION (410)	2,096	75.1	368	85.2	64	58.3	96	96.1
OTHER ACUTE & SUBACUTE (411)	9	.3	1	.2			2	2.0
CHRONIC ISCHEMIC HEART DISEASE (412-414)	3,337	119.6	655	151.6	122	111.1	171	171.2
ALL OTHER FORMS (415-429)	1,747	62.6	314	72.7	70	63.8	79	79.1
HYPERTENSION (401, 403)	139	5.0	27	6.2	4	3.6	14	
CEREBROVASCULAR DISEASE (430-438)	2,006	71.9	394	91.2	77	70.1	120	120.2
SUBARACHNOID HEMORRHAGE (430)	79	2.8	15	3.5	2	1.8	4	4.0
INTRACEREBRAL & INTRACRANIAL HEMORRHAGES (431-432)	229	8.2	45	10.4	15	13.7	18	18.0
CEREBRAL THROMBOSIS & EMBOLISM (434)	314	11.3	54	12.5	11	10.0	45	45.1
ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE (436)	1,115	39.9	231	53.5	37	33.7	44	44.1
GENERALIZED ISCHEMIC CEREBROVASCULAR DISEASE (437)	143	5.1	23	5.3	8	7.3	3	3.0
ARTERIOSCLEROSIS (440)	355	12.7	61	14.1	14	12.8	13	13.0
OTHER DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES (441-448)	344	12.3	63	14.6	12	10.9	20	20.0
VENOUS THROMBOSIS & EMBOLISM (451-453)	18	.6	2	.5	1	.9		
PNEUMONIA (480-486)	871	31.2	175	40.5	24	21.9	28	28.0
INFLUENZA (487)	53	1.9	4	.9	3	2.7	6	6.0
BRONCHITIS, EMPHYSEMA, ASTHMA, AND COPD (490-496)	1,272	45.6	222	51.4	71	64.7	57	57.1
GASTRIC, DUODENAL, OR PEPTIC ULCER (531-533)	69	2.5	16	3.7	3	2.7	2	2.0
HERNIA & INTESTINAL OBSTRUCTION (550-553, 560)	52	1.9	7	1.6	2	1.8	3	3.0
CIRRHOSIS OF THE LIVER (571)	263	9.4	78	18.0	10	9.1	15	15.0
ALCOHOLIC CIRRHOSIS (571.0-571.3)	213	7.6	67	15.5	8	7.3	12	12.0
DISEASES OF THE PANCREAS (577)	25	.9	6	1.4	-	-	-	
NEPHRITIS & NEPHROSIS (580-589)	127	4.6	26	6.0	2	1.8	3	3.0
INFECTIONS OF THE KIDNEY (590)	27	1.0	3	.7	1	.9	4	4.0
DISEASES OF MALE GENITAL ORGANS (600-608)	6	.2	3	.7				
DISEASES OF THE UTERUS AND OTHER FEMALE GENITAL ORGANS (614-629)	2	.1	1	.2				
COMPLICATIONS OF PREGNANCY, CHILDBIRTH, & THE PUERPERIUM (630-676)	4	.1	1	.2				
CONGENITAL ANOMALIES (740-759)	121	4.3	26	6.0	1	.9	9	9.0
CERTAIN CAUSES IN EARLY INFANCY (760-779)	170	6.1	36	8.3	5	4.6	14	14.0
SENILITY (797)	13	.5	1	.2	2	1.8	1	1.0
SUDDEN INFANT DEATH SYNDROME (798.0)	93	3.3	27	6.2	3	2.7	3	3.0
UNINTENTIONAL INJURIES (800-949)	1,151	41.2	148	34.2	40	36.4	52	52.1
MOTOR VEHICLE-RELATED (810-825)	614	22.0	72	16.7	21	19.1	23	23.0
SUICIDES (950-959)	459	16.4	95	22.0	26	23.7	22	22.0
HOMICIDES (960-978)	146	5.2	40	9.3	4	3.6	5	5.0
INJURIES UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED (980-989)	54	1.9	17	3.9	1	.9	2	2.0

TABLE 4-21. DEATHS BY SELECTED CAUSES BY COUNTY, OREGON RESIDENTS, 1989

SELECTED CAUSES OF DEATH	COUNTY OF RESIDENCE							
	BAKER		BENTON		CLACKAMAS		CLATSOP	
	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
TOTAL	196	1276.9	426	600.0	2,022	761.6	337	957.4
TUBERCULOSIS (010-018, 137)	-	-	-	-	2	.8	-	
SEPTICEMIA (038)	3	19.5	1	1.4	5	1.9	-	-
AIDS (042-044)	-	-	2	2.8	9	3.4	-	-
MEASLES (055)	-	-	-	-	-	-	-	-
VIRAL HEPATITIS (070)	-	-	1	1.4	3	1.1	-	-
OTHER INFECTIVE & PARASITIC DISEASES (RESIDUAL 001-139)	-	-	-	-	6	2.3	-	-
MALIGNANT NEOPLASMS (140-208)	43	280.1	103	145.1	466	175.5	81	230.1
BUCCAL CAVITY & PHARYNX (140-149)	-	-	-	-	2	.8	3	8.5
DIGESTIVE ORGANS & PERITONEUM (150-159)	7	45.6	32	45.1	105	39.5	21	59.7
LARGE INTESTINE (153)	4	26.1	11	15.5	42	15.8	5	14.2
PANCREAS (157)	2	13.0	7	9.9	26	9.8	6	17.0
RESPIRATORY/INTRATHORACIC ORGANS (160-165)	17	110.7	24	33.8	143	53.9	25	71.0
BRONCHUS AND LUNG (162.2-162.9)	17	110.7	24	33.8	136	51.2	24	68.2
MALIGNANT MELANOMA (172)	1	6.5	3	4.2	8	3.0	-	-
OTHER SKIN (173)	-	-	-	-	-	-	2	5.7
BREAST (174-175)	2	13.0	11	15.5	43	16.2	5	14.2
GENITAL ORGANS (179-187)	5	32.6	10	14.1	47	17.7	11	31.3
CERVIX & UTERUS (179-182)	-	-	1	1.4	3	1.1	2	5.7
OVARY (183.0)	-	-	2	2.8	13	4.9	2	5.7
PROSTATE (185)	5	32.6	7	9.9	30	11.3	6	17.0
URINARY ORGANS (188-189)	1	6.5	3	4.2	19	7.2	3	8.5
LEUKEMIA (204-208)	2	13.0	4	5.6	27	10.2	2	5.7
BENIGN NEOPLASMS (210-229)	-	-	-	-	1	.4	-	-
IN SITU, UNCERTAIN BEHAVIOR & UNSPECIFIED NATURE NEOPLASMS (230-239)	1	6.5	-	-	8	3.0	-	-
DIABETES MELLITUS (250)	1	6.5	7	9.9	35	13.2	2	5.7
NUTRITIONAL DEFICIENCIES (260-269)	-	-	2	2.8	2	.8	-	-
ANEMIAS (280-285)	-	-	1	1.4	-	-	-	-
ALZHEIMER'S DEMENTIA (290.1)	1	6.5	-	-	6	2.3	1	2.8
ALCOHOLIC PSYCHOSES & ALCOHOLISM (291, 303)	-	-	2	2.8	7	2.6	2	
DRUG DEPENDENCE (304)	-	-	-	-	1	.4	-	-
MENINGITIS (302-322)	-	-	-	-	-	-	-	-
ALZHEIMER'S DISEASE (331)	2	13.0	5	7.0	22	8.3	6	17.0
PARKINSON'S DISEASE (332)	1	6.5	5	7.0	13	4.9	1	2.8
EPILEPSY (345)	-	-	-	-	1	.4	1	2.8
MAJOR CARDIOVASCULAR DISEASES (390-448)	87	566.8	169	238.0	886	333.7	152	431.8
DISEASES OF THE HEART (390-398, 402, 404-429)	56	364.8	126	177.5	647	243.7	109	309.7
RHEUMATIC FEVER & CHRONIC RHEUMATIC HEART DISEASE (390-398)	-	-	4	5.6	8	3.0	-	-
HYPERTENSIVE HEART DISEASE WITH OR WITHOUT RENAL DISEASE (402, 404)	1	6.5	8	11.3	29	10.9	1	2.8
ISCHEMIC HEART DISEASE (410-414)	48	312.7	76	107.0	468	176.3	89	252.8
MYOCARDIAL INFARCTION (410)	10	65.1	25	35.2	176	66.3	28	79.5
OTHER ACUTE & SUBACUTE (411)	-	-	-	-	1	.4	-	-
CHRONIC ISCHEMIC HEART DISEASE (412-414)	38	247.6	51	71.8	291	109.6	61	173.3
ALL OTHER FORMS (415-429)	7	45.6	38	53.5	142	53.5	19	54.0
HYPERTENSION (401, 403)	1	6.5	3	4.2	6	2.3	2	5.7
CEREBROVASCULAR DISEASE (430-438)	20	130.3	30	42.3	172	64.8	24	68.2
SUBARACHNOID HEMORRHAGE (430)	-	-	-	-	9	3.4	2	5.7
INTRACEREBRAL & INTRACRANIAL HEMORRHAGES (431-432)	2	13.0	5	7.0	20	7.5	1	2.8
CEREBRAL THROMBOSIS & EMBOLISM (434)	-	-	4	5.6	26	9.8	1	2.8
ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE (436)	15	97.7	13	18.3	93	35.0	17	48.3
GENERALIZED ISCHEMIC CEREBROVASCULAR DISEASE (437)	2	13.0	8	11.3	18	6.8	3	8.5
ARTERIOSCLEROSIS (440)	7	45.6	6	8.5	39	14.7	11	31.3
OTHER DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES (441-448)	3	19.5	4	5.6	22	8.3	6	17.0
VENOUS THROMBOSIS & EMBOLISM (451-453)	-	-	-	-	-	-	-	-
PNEUMONIA (480-486)	7	45.6	17	23.9	96	36.2	21	59.7
INFLUENZA (487)	-	-	-	-	6	2.3	1	2.8
BRONCHITIS, EMPHYSEMA, ASTHMA, AND COPD (490-496)	10	65.1	23	32.4	88	33.1	14	39.8
GASTRIC, DUODENAL, OR PEPTIC ULCER (531-533)	-	-	4	5.6	5	1.9	-	-
HERNIA & INTESTINAL OBSTRUCTION (550-553, 560)	-	-	-	-	5	1.9	-	-
CIRRHOSIS OF THE LIVER (571)	-	-	1	1.4	14	5.3	5	14.2
ALCOHOLIC CIRRHOSIS (571.0-571.3)	-	-	1	1.4	12	4.5	5	14.2
DISEASES OF THE PANCREAS (577)	-	-	1	1.4	2	.8	-	-
NEPHRITIS & NEPHROSIS (580-589)	2	13.0	-	-	6	2.3	1	2.8
INFECTIONS OF THE KIDNEY (590)	-	-	-	-	4	1.5	-	-
DISEASES OF MALE GENITAL ORGANS (600-608)	-	-	-	-	-	-	-	-
DISEASES OF THE UTERUS AND OTHER FEMALE GENITAL ORGANS (614-629)	-	-	-	-	-	-	-	-
COMPLICATIONS OF PREGNANCY, CHILDBIRTH, & THE PUERPERIUM (630-676)	1	6.5	-	-	-	-	-	-
CONGENITAL ANOMALIES (740-759)	-	-	2	2.8	11	4.1	-	-
CERTAIN CAUSES IN EARLY INFANCY (760-779)	1	6.5	2	2.8	17	6.4	1	2.8
SENILITY (797)	-	-	-	-	-	-	-	-
SUDDEN INFANT DEATH SYNDROME (798.0)	-	-	1	1.4	8	3.0	-	-
UNINTENTIONAL INJURIES (800-949)	18	117.3	20	28.2	98	36.9	15	42.6
MOTOR VEHICLE-RELATED (810-825)	5	32.6	15	21.1	52	19.6	8	22.7
SUICIDES (950-959)	1	6.5	9	12.7	34	12.8	6	17.0
HOMICIDES (960-978)	1	6.5	6	8.5	6	2.3	2	5.7
INJURIES UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED (980-989)	-	-	-	-	6	2.3	2	5.7

TABLE 4-21. DEATHS BY SELECTED CAUSES BY COUNTY, OREGON RESIDENTS, 1989, CONTINUED

SELECTED CAUSES OF DEATH	COUNTY OF RESIDENCE							
	COLUMBIA		COOS		CROOK		CURRY	
	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
TOTAL	286	766.8	700	1160.9	132	970.6	190	989.6
TUBERCULOSIS (010-018, 137)	-	-	-	-	-	-	1	5.2
SEPTICEMIA (038)	-	-	2	3.3	1	7.4	1	5.2
AIDS (042-044)	2	5.4	3	5.0	-	-	-	-
MEASLES (055)	-	-	-	-	-	-	-	-
VIRAL HEPATITIS (070)	-	-	-	-	-	-	-	-
OTHER INFECTIVE & PARASITIC DISEASES (RESIDUAL 001-139)	1	2.7	3	5.0	1	7.4	-	-
MALIGNANT NEOPLASMS (140-208)	61	163.5	195	323.4	37	272.1	51	265.6
BUCCAL CAVITY & PHARYNX (140-149)	1	2.7	2	3.3	-	-	1	5.2
DIGESTIVE ORGANS & PERITONEUM (150-159)	17	45.6	35	58.0	13	95.6	9	46.9
LARGE INTESTINE (153)	10	26.8	15	24.9	7	51.5	3	15.6
PANCREAS (157)	6	16.1	8	13.3	-	-	1	5.2
RESPIRATORY/INTRATHORACIC ORGANS (160-165)	18	48.3	65	107.8	8	58.8	14	72.9
BRONCHUS AND LUNG (162.2-162.9)	18	48.3	64	106.1	7	51.5	14	72.9
MALIGNANT MELANOMA (172)	-	-	1	1.7	-	-	-	-
OTHER SKIN (173)	-	-	-	-	-	-	-	-
BREAST (174-175)	3	8.0	16	26.5	5	36.8	8	41.7
GENITAL ORGANS (179-187)	7	18.8	26	43.1	6	44.1	7	36.5
CERVIX & UTERUS (179-182)	1	2.7	10	16.6	1	7.4	2	10.4
OVARY (183.0)	3	8.0	3	5.0	-	-	2	10.4
PROSTATE (185)	3	8.0	11	18.2	5	36.8	3	15.6
URINARY ORGANS (188-189)	2	5.4	7	11.6	2	14.7	-	-
LEUKEMIA (204-208)	-	-	13	21.6	-	-	4	20.8
BENIGN NEOPLASMS (210-229)	3	8.0	2	3.3	1	7.4	1	5.2
IN SITU, UNCERTAIN BEHAVIOR, & UNSPECIFIED NATURE NEOPLASMS (230-239)	5	16.1	8	13.3	1	7.4	7	36.5
DIABETES MELLITUS (250)	1	2.7	-	-	-	-	-	-
NUTRITIONAL DEFICIENCIES (260-269)	1	2.7	4	6.6	-	-	-	-
ANEMIAS (280-285)	1	2.7	4	6.6	1	7.4	-	-
ALZHEIMER'S DEMENTIA (290.1)	-	-	1	1.7	-	-	1	5.2
ALCOHOLIC PSYCHOSES & ALCOHOLISM (291, 303)	2	5.4	6	10.0	1	7.4	1	5.2
DRUG DEPENDENCE (304)	1	2.7	2	3.3	1	7.4	1	5.2
MENINGITIS (302-322)	1	2.7	2	3.3	-	-	-	-
ALZHEIMER'S DISEASE (331)	135	361.9	282	467.7	57	419.1	74	385.4
PARKINSON'S DISEASE (332)	98	262.7	212	351.6	37	272.1	-	-
EPILEPSY (345)	1	2.7	2	3.3	-	-	-	-
MAJOR CARDIOVASCULAR DISEASES (390-448)	1	2.7	7	11.6	-	-	1	5.2
DISEASES OF THE HEART (390-398, 402, 404-429)	79	211.8	150	248.8	31	227.9	28	145.8
RHEUMATIC FEVER & CHRONIC RHEUMATIC HEART DISEASE (390-398)	35	93.8	58	96.2	11	80.9	16	83.3
HYPERTENSIVE HEART DISEASE WITH OR WITHOUT RENAL DISEASE (402, 404)	44	118.0	92	152.6	20	147.1	12	62.5
ISCHEMIC HEART DISEASE (410-414)	17	45.6	53	87.9	6	44.1	24	125.0
MYOCARDIAL INFARCTION (410)	1	2.7	2	3.3	2	14.7	1	5.2
OTHER ACUTE & SUBACUTE (411)	32	85.8	43	71.3	9	66.2	14	72.9
CHRONIC ISCHEMIC HEART DISEASE (412-414)	1	2.7	1	1.7	-	-	-	-
ALL OTHER FORMS (415-429)	2	5.4	3	5.0	4	29.4	-	-
HYPERTENSION (401, 403)	7	18.8	7	11.6	1	7.4	-	-
CEREBROVASCULAR DISEASE (430-438)	19	50.9	24	39.8	4	29.4	5	26.0
SUBARACHNOID HEMORRHAGE (430)	2	5.4	-	-	-	-	7	36.5
INTRACEREBRAL & INTRACRANIAL HEMORRHAGES (431-432)	2	5.4	12	19.9	6	44.1	1	5.2
CEREBRAL THROMBOSIS & EMBOLISM (434)	2	5.4	13	21.6	3	22.1	2	10.4
ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE (436)	-	-	1	1.7	-	-	4	20.8
GENERALIZED ISCHEMIC CEREBROVASCULAR DISEASE (437)	8	21.4	16	26.5	4	29.4	3	15.6
ARTERIOSCLEROSIS (440)	-	-	2	3.3	-	-	-	-
OTHER DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES (441-448)	13	34.9	42	69.7	5	36.8	8	41.7
VENOUS THROMBOSIS & EMBOLISM (451-453)	1	2.7	2	3.3	1	7.4	-	-
PNEUMONIA (480-486)	-	-	2	3.3	1	7.4	-	-
INFLUENZA (487)	1	2.7	8	13.3	-	-	3	15.6
BRONCHITIS, EMPHYSEMA, ASTHMA, AND COPD (490-496)	1	2.7	5	8.3	-	-	3	15.6
GASTRIC, DUODENAL, OR PEPTIC ULCER (531-533)	-	-	-	-	1	7.4	1	5.2
HERNIA & INTESTINAL OBSTRUCTION (550-553, 560)	2	5.4	-	-	-	-	4	20.8
CIRRHOSIS OF THE LIVER (571)	-	-	1	1.7	-	-	-	-
ALCOHOLIC CIRRHOSIS (571.0-571.3)	-	-	1	1.7	-	-	-	-
DISEASES OF THE PANCREAS (577)	-	-	-	-	-	-	-	-
NEPHRITIS & NEPHROSIS (580-589)	-	-	-	-	-	-	-	-
INFECTIONS OF THE KIDNEY (590)	-	-	-	-	-	-	-	-
DISEASES OF MALE GENITAL ORGANS (600-608)	-	-	-	-	-	-	-	-
DISEASES OF THE UTERUS AND OTHER FEMALE GENITAL ORGANS (614-629)	-	-	-	-	-	-	-	-
COMPLICATIONS OF PREGNANCY, CHILDBIRTH & THE PUERPERIUM (630-676)	-	-	-	-	-	-	-	-
CONGENITAL ANOMALIES (740-759)	-	-	-	-	-	-	-	-
CERTAIN CAUSES IN EARLY INFANCY (760-779)	3	8.0	4	6.6	-	-	1	5.2
SENILITY (797)	2	5.4	4	6.6	-	-	-	-
SUDDEN INFANT DEATH SYNDROME (798.0)	1	2.7	1	1.7	-	-	-	-
UNINTENTIONAL INJURIES (800-949)	-	-	2	3.3	-	-	1	5.2
MOTOR VEHICLE-RELATED (810-825)	18	48.3	32	53.1	11	80.9	9	46.9
SUICIDES (950-959)	10	26.8	24	39.8	4	29.4	5	26.0
HOMICIDES (960-978)	2	5.4	12	19.9	-	-	5	26.0
INJURIES UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED (980-989)	-	-	2	3.3	-	-	-	-
	1	2.7	3	5.0	-	-	-	-

TABLE 4-21. DEATHS BY SELECTED CAUSES BY COUNTY, OREGON RESIDENTS, 1989, CONTINUED

SELECTED CAUSES OF DEATH	COUNTY OF RESIDENCE							
	DESCHUTES		DOUGLAS		GILLIAM		GRANT	
	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
TOTAL	586	830.0	890	936.8	18	973.0	82	988.0
TUBERCULOSIS (010-018, 137)	-	-	1	1.1	-	-	-	-
SEPTICEMIA (038)	2	2.8	3	3.2	-	-	-	-
AIDS (042-044)	1	1.4	2	2.1	-	-	-	-
MEASLES (055)	-	-	-	-	-	-	2	24.1
VIRAL HEPATITIS (070)	-	-	-	-	-	-	-	-
OTHER INFECTIVE & PARASITIC DISEASES (RESIDUAL 001-139)	-	-	1	1.1	-	-	-	-
MALIGNANT NEOPLASMS (140-208)	-	-	2	2.1	-	-	-	-
BUCCAL CAVITY & PHARYNX (140-149)	149	211.0	223	234.7	6	324.3	21	253.0
DIGESTIVE ORGANS & PERITONEUM (150-159)	2	2.8	6	6.3	-	-	-	-
LARGE INTESTINE (153)	35	49.6	50	52.6	2	108.1	6	72.3
PANCREAS (157)	11	15.6	20	21.1	2	108.1	3	36.1
RESPIRATORY/INTRATHORACIC ORGANS (160-165)	5	7.1	14	14.7	-	-	-	-
BRONCHUS AND LUNG (162.2-162.9)	49	69.4	74	77.9	1	54.1	7	84.3
MALIGNANT MELANOMA (172)	48	68.0	73	76.8	1	54.1	7	84.3
OTHER SKIN (173)	1	1.4	3	3.2	-	-	-	-
BREAST (174-175)	-	-	1	1.1	-	-	-	-
GENITAL ORGANS (179-187)	8	11.3	12	12.6	-	-	3	36.1
CERVIX & UTERUS (179-182)	17	24.1	22	23.2	1	54.1	2	24.1
OVARY (183.0)	3	4.2	6	6.3	-	-	1	12.0
PROSTATE (185)	2	2.8	5	5.3	-	-	-	-
URINARY ORGANS (188-189)	11	15.6	11	11.6	1	54.1	1	12.0
LEUKEMIA (204-208)	8	11.3	17	17.9	-	-	-	-
BENIGN NEOPLASMS (210-229)	6	8.5	6	6.3	-	-	-	-
IN SITU, UNCERTAIN BEHAVIOR & UNSPECIFIED NATURE (230-239)	-	-	-	-	-	-	-	-
DIABETES MELLITUS (250)	1	1.4	2	2.1	-	-	-	-
NUTRITIONAL DEFICIENCIES (260-269)	18	25.5	26	27.4	-	-	2	24.1
ANEMIAS (280-285)	-	-	-	-	-	-	-	-
ALZHEIMER'S DEMENTIA (290.1)	2	2.8	2	2.1	-	-	-	-
ALCOHOLIC PSYCHOSES & ALCOHOLISM (291, 303)	-	-	1	1.1	-	-	-	-
DRUG DEPENDENCE (304)	-	-	6	6.3	-	-	1	12.0
MENINGITIS (302-322)	-	-	-	-	-	-	-	-
ALZHEIMER'S DISEASE (331)	-	-	-	-	-	-	1	12.0
PARKINSON'S DISEASE (332)	4	5.7	5	5.3	-	-	-	-
EPILEPSY (345)	3	4.2	4	4.2	-	-	-	-
MAJOR CARDIOVASCULAR DISEASES (390-448)	1	1.4	-	-	-	-	-	-
DISEASES OF THE HEART (390-398, 402, 404-429)	254	359.8	360	378.9	7	378.4	30	361.4
RHEUMATIC FEVER & CHRONIC RHEUMATIC HEART DISEASE (390-398)	166	235.1	282	296.8	6	324.3	-	-
HYPERTENSIVE HEART DISEASE WITH OR WITHOUT RENAL DISEASE (402, 404)	2	2.8	2	2.1	-	-	-	-
ISCHEMIC HEART DISEASE (410-414)	10	14.2	3	3.2	-	-	-	-
MYOCARDIAL INFARCTION (410)	119	168.6	206	216.8	5	270.3	17	204.8
OTHER ACUTE & SUBACUTE (411)	37	52.4	82	86.3	1	54.1	15	180.7
CHRONIC ISCHEMIC HEART DISEASE (412-414)	-	-	-	-	-	-	-	-
ALL OTHER FORMS (415-429)	82	116.1	124	130.5	4	216.2	2	24.1
HYPERTENSION (401, 403)	35	49.6	71	74.7	1	54.1	7	84.3
CEREBROVASCULAR DISEASE (430-438)	2	2.8	8	8.4	-	-	-	-
SUBARACHNOID HEMORRHAGE (430)	58	82.2	54	56.8	1	54.1	6	72.3
INTRACEREBRAL & INTRACRANIAL HEMORRHAGES (431-432)	4	5.7	2	2.1	-	-	-	-
CEREBRAL THROMBOSIS & EMBOLISM (434)	7	9.9	10	10.5	-	-	-	-
ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE (436)	10	14.2	3	3.2	-	-	-	-
GENERALIZED ISCHEMIC CEREBROVASCULAR DISEASE (437)	31	43.9	31	32.6	-	-	-	-
ARTERIOSCLEROSIS (440)	4	5.7	4	4.2	-	-	5	60.2
OTHER DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES (441-448)	18	25.5	5	5.3	1	54.1	1	12.0
VENOUS THROMBOSIS & EMBOLISM (451-453)	10	14.2	11	11.6	-	-	-	-
PNEUMONIA (480-486)	-	-	-	-	-	-	-	-
INFLUENZA (487)	18	25.5	24	25.3	3	162.2	1	12.0
BRONCHITIS, EMPHYSEMA, ASTHMA, AND COPD (490-496)	-	-	-	-	-	-	-	-
GASTRIC, DUODENAL, OR PEPTIC ULCER (531-533)	20	28.3	61	64.2	1	54.1	4	48.2
HERNIA & INTESTINAL OBSTRUCTION (550-553, 560)	2	2.8	2	2.1	-	-	-	-
CIRRHOSIS OF THE LIVER (571)	1	1.4	1	1.1	-	-	-	-
ALCOHOLIC CIRRHOSIS (571.0-571.3)	4	5.7	12	12.6	-	-	1	12.0
DISEASES OF THE PANCREAS (577)	2	2.8	8	8.4	-	-	1	12.0
NEPHRITIS & NEPHROSIS (580-589)	-	-	1	1.1	-	-	1	12.0
INFECTIONS OF THE KIDNEY (590)	3	4.2	9	9.5	-	-	-	-
DISEASES OF MALE GENITAL ORGANS (600-608)	-	-	1	1.1	-	-	-	-
DISEASES OF THE UTERUS AND OTHER FEMALE GENITAL ORGANS (614-629)	-	-	-	-	-	-	-	-
COMPLICATIONS OF PREGNANCY, CHILDBIRTH, & THE PUERPERIUM (630-676)	-	-	-	-	-	-	-	-
CONGENITAL ANOMALIES (740-759)	-	-	1	1.1	-	-	-	-
CERTAIN CAUSES IN EARLY INFANCY (760-779)	5	7.1	5	5.3	-	-	-	-
SENILITY (797)	7	9.9	6	6.3	-	-	-	-
SUDDEN INFANT DEATH SYNDROME (798.0)	-	-	-	-	-	-	-	-
UNINTENTIONAL INJURIES (800-949)	2	2.8	2	2.1	-	-	-	-
MOTOR VEHICLE-RELATED (810-825)	27	38.2	52	54.7	-	-	-	-
SUICIDES (950-959)	16	22.7	26	27.4	-	-	5	60.2
HOMICIDES (960-978)	13	18.4	14	14.7	-	-	3	36.1
INJURIES UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED (980-989)	2	2.8	4	4.2	-	-	3	36.1
	-	-	2	2.1	-	-	2	24.1

TABLE 4-21. DEATHS BY SELECTED CAUSES BY COUNTY, OREGON RESIDENTS, 1989, CONTINUED

SELECTED CAUSES OF DEATH	COUNTY OF RESIDENCE							
	HARNEY		HOOD RIVER		JACKSON		JEFFERSON	
	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
TOTAL	86	1162.2	143	841.2	1,412	973.8	97	801.7
TUBERCULOSIS (010-018, 137)	-	-	-	-	2	1.4	-	-
SEPTICEMIA (038)	-	-	-	-	6	4.1	-	-
AIDS (042-044)	-	-	-	-	3	2.1	-	-
MEASLES (055)	-	-	-	-	-	-	-	-
VIRAL HEPATITIS (070)	-	-	-	-	-	-	1	8.3
OTHER INFECTIVE & PARASITIC DISEASES (RESIDUAL 001-139)	-	-	1	5.9	6	4.1	-	-
MALIGNANT NEOPLASMS (140-208)	13	175.7	29	170.6	369	254.5	24	198.3
BUCCAL CAVITY & PHARYNX (140-149)	-	-	-	-	8	5.5	-	-
DIGESTIVE ORGANS & PERITONEUM (150-159)	4	54.1	5	29.4	94	64.8	5	41.3
LARGE INTESTINE (153)	-	-	2	11.8	33	22.8	2	16.5
PANCREAS (157)	2	27.0	3	17.6	26	17.9	1	8.3
RESPIRATORY/INTRATHORACIC ORGANS (160-165)	3	40.5	11	64.7	107	73.8	8	66.1
BRONCHUS AND LUNG (162.2-162.9)	3	40.5	11	64.7	103	71.0	8	66.1
MALIGNANT MELANOMA (172)	-	-	1	5.9	9	6.2	-	-
OTHER SKIN (173)	-	-	-	-	2	1.4	-	-
BREAST (174-175)	-	-	1	5.9	28	19.3	1	8.3
GENITAL ORGANS (179-187)	3	40.5	4	23.5	43	29.7	5	41.3
CERVIX & UTERUS (179-182)	-	-	-	-	4	2.8	-	-
OVARY (183.0)	-	-	2	11.8	9	6.2	-	-
PROSTATE (185)	3	40.5	2	11.8	27	18.6	5	41.3
URINARY ORGANS (188-189)	1	13.5	-	-	15	10.3	2	16.5
LEUKEMIA (204-208)	-	-	1	5.9	16	11.0	-	-
BENIGN NEOPLASMS (210-229)	-	-	-	-	1	.7	-	-
IN SITU, UNCERTAIN BEHAVIOR & UNSPECIFIED NATURE NEOPLASMS (230-239)	-	-	-	-	4	2.8	-	-
DIABETES MELLITUS (250)	1	13.5	3	17.6	18	12.4	2	16.5
NUTRITIONAL DEFICIENCIES (260-269)	-	-	-	-	-	-	-	-
ANEMIAS (280-285)	-	-	-	-	3	2.1	-	-
ALZHEIMER'S DEMENTIA (290.1)	-	-	2	11.8	6	4.1	-	-
ALCOHOLIC PSYCHOSES & ALCOHOLISM (291, 303)	-	-	1	5.9	8	5.5	-	-
DRUG DEPENDENCE (304)	-	-	-	-	2	1.4	-	-
MENINGITIS (302-322)	-	-	-	-	-	-	-	-
ALZHEIMER'S DISEASE (331)	-	-	1	5.9	17	11.7	-	-
PARKINSON'S DISEASE (332)	-	-	-	-	6	4.1	-	-
EPILEPSY (345)	-	-	-	-	3	2.1	-	-
MAJOR CARDIOVASCULAR DISEASES (390-448)	45	608.1	60	352.9	577	397.9	38	314.0
DISEASES OF THE HEART (390-398, 402, 404-429)	36	486.5	48	282.4	426	293.8	-	-
RHEUMATIC FEVER & CHRONIC RHEUMATIC HEART DISEASE (390-398)	-	-	-	-	7	4.8	-	-
HYPERTENSIVE HEART DISEASE WITH OR WITHOUT RENAL DISEASE (402, 404)	3	40.5	3	17.6	6	4.1	-	-
ISCHEMIC HEART DISEASE (410-414)	14	189.2	37	217.6	307	211.7	29	239.7
MYOCARDIAL INFARCTION (410)	9	121.6	21	123.5	112	77.2	14	115.7
OTHER ACUTE & SUBACUTE (411)	-	-	-	-	2	1.4	-	-
CHRONIC ISCHEMIC HEART DISEASE (412-414)	5	67.6	16	94.1	193	133.1	15	124.0
ALL OTHER FORMS (415-429)	19	256.8	8	47.1	106	73.1	2	16.5
HYPERTENSION (401, 403)	-	-	-	-	3	2.1	2	16.5
CEREBROVASCULAR DISEASE (430-438)	5	67.6	8	47.1	113	77.9	3	24.8
SUBARACHNOID HEMORRHAGE (430)	-	-	-	-	4	2.8	1	8.3
INTRACEREBRAL & INTRACRANIAL HEMORRHAGES (431-432)	-	-	1	5.9	7	4.8	-	-
CEREBRAL THROMBOSIS & EMBOLISM (434)	1	13.5	1	5.9	16	11.0	1	8.3
ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE (436)	3	40.5	6	35.3	72	49.7	1	8.3
GENERALIZED ISCHEMIC CEREBROVASCULAR DISEASE (437)	-	-	-	-	7	4.8	-	-
ARTERIOSCLEROSIS (440)	1	13.5	2	11.8	16	11.0	1	8.3
OTHER DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES (441-448)	3	40.5	2	11.8	19	13.1	1	8.3
VENOUS THROMBOSIS & EMBOLISM (451-453)	-	-	-	-	4	2.8	-	-
PNEUMONIA (480-486)	1	13.5	5	29.4	51	35.2	3	24.8
INFLUENZA (487)	-	-	1	5.9	5	3.4	-	-
BRONCHITIS, EMPHYSEMA, ASTHMA, AND COPD (490-496)	11	148.6	9	52.9	69	47.6	4	33.1
GASTRIC, DUODENAL, OR PEPTIC ULCER (531-533)	-	-	1	5.9	1	.7	-	-
HERNIA & INTESTINAL OBSTRUCTION (550-553, 560)	-	-	-	-	2	1.4	-	-
CIRRHOSIS OF THE LIVER (571)	2	27.0	1	5.9	14	9.7	1	8.3
ALCOHOLIC CIRRHOSIS (571.0-571.3)	2	27.0	1	5.9	14	9.7	1	8.3
DISEASES OF THE PANCREAS (577)	-	-	-	-	1	.7	1	8.3
NEPHRITIS & NEPHROSIS (580-589)	1	13.5	2	11.8	4	2.8	1	8.3
INFECTIONS OF THE KIDNEY (590)	-	-	-	-	-	-	-	-
DISEASES OF MALE GENITAL ORGANS (600-608)	-	-	-	-	-	-	-	-
DISEASES OF THE UTERUS AND OTHER FEMALE GENITAL ORGANS (614-629)	-	-	-	-	-	-	-	-
COMPLICATIONS OF PREGNANCY, CHILDBIRTH, & THE PUERPERIUM (630-676)	-	-	-	-	-	-	-	-
CONGENITAL ANOMALIES (740-759)	-	-	-	-	5	3.4	1	8.3
CERTAIN CAUSES IN EARLY INFANCY (760-779)	-	-	-	-	7	4.8	1	8.3
SENILITY (797)	-	-	-	-	-	-	-	-
SUDDEN INFANT DEATH SYNDROME (798.0)	-	-	-	-	5	3.4	2	16.5
UNINTENTIONAL INJURIES (800-949)	6	81.1	10	58.8	67	46.2	8	66.1
MOTOR VEHICLE-RELATED (810-825)	3	40.5	2	11.8	35	24.1	7	57.9
SUICIDES (950-959)	1	13.5	-	-	27	18.6	3	24.8
HOMICIDES (960-978)	-	-	-	-	7	4.8	1	8.3
INJURIES UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED (980-989)	-	-	1	5.9	1	.7	-	-

TABLE 4-21. DEATHS BY SELECTED CAUSES BY COUNTY, OREGON RESIDENTS, 1989, CONTINUED

SELECTED CAUSES OF DEATH	COUNTY OF RESIDENCE							
	JOSEPHINE		KLAMATH		LAKE		LANE	
	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
TOTAL	755	1176.0	546	933.3	77	1040.5	2271	811.1
TUBERCULOSIS (010-018, 137)	-	-	1	1.7	-	-	2	.7
SEPTICEMIA (038)	5	7.8	2	3.4	1	13.5	8	2.9
AIDS (042-044)	2	3.1	1	1.7	-	-	8	2.9
MEASLES (055)	-	-	-	-	-	-	-	-
VIRAL HEPATITIS (070)	-	-	1	1.7	-	-	-	-
OTHER INFECTIVE & PARASITIC DISEASES (RESIDUAL 001-139)	2	3.1	2	3.4	-	-	6	2.1
MALIGNANT NEOPLASMS (140-208)	171	266.4	111	189.7	19	256.8	554	197.9
BUCCAL CAVITY & PHARYNX (140-149)	6	9.3	2	3.4	-	-	4	1.4
DIGESTIVE ORGANS & PERITONEUM (150-159)	36	56.1	29	49.6	6	81.1	117	41.8
LARGE INTESTINE (153)	8	12.5	8	13.7	1	13.5	49	17.5
PANCREAS (157)	15	23.4	7	12.0	-	-	27	9.6
RESPIRATORY/INTRATHORACIC ORGANS (160-165)	52	81.0	36	61.5	2	27.0	184	65.7
BRONCHUS AND LUNG (162.2-162.9)	49	76.3	34	58.1	2	27.0	178	63.6
MALIGNANT MELANOMA (172)	1	1.6	1	1.7	1	13.5	8	2.9
OTHER SKIN (173)	1	1.6	-	-	-	-	-	-
BREAST (174-175)	11	17.1	7	12.0	-	-	40	14.3
GENITAL ORGANS (179-187)	30	46.7	16	27.4	3	40.5	65	23.2
CERVIX & UTERUS (179-182)	5	7.8	3	5.1	-	-	11	3.9
OVARY (183.0)	9	14.0	4	6.8	1	13.5	16	5.7
PROSTATE (185)	16	24.9	9	15.4	2	27.0	37	13.2
URINARY ORGANS (188-189)	6	9.3	3	5.1	2	27.0	18	6.4
LEUKEMIA (204-208)	9	14.0	3	5.1	2	27.0	20	7.1
BENIGN NEOPLASMS (210-229)	1	1.6	2	3.4	-	-	2	.7
IN SITU, UNCERTAIN BEHAVIOR & UNSPECIFIED NATURE NEOPLASMS (230-239)	-	-	1	1.7	-	-	4	1.4
DIABETES MELLITUS (250)	8	12.5	12	20.5	-	-	52	18.6
NUTRITIONAL DEFICIENCIES (260-269)	-	-	2	3.4	-	-	1	.4
ANEMIAS (280-285)	1	1.6	2	3.4	-	-	4	1.4
ALZHEIMER'S DEMENTIA (290.1)	7	10.9	3	5.1	-	-	11	3.9
ALCOHOLIC PSYCHOSES & ALCOHOLISM (291, 303)	2	3.1	4	6.8	-	-	5	1.8
DRUG DEPENDENCE (304)	-	-	-	-	-	-	-	-
MENINGITIS (302-322)	-	-	-	-	-	-	1	.4
ALZHEIMER'S DISEASE (331)	13	20.2	9	15.4	-	-	38	13.6
PARKINSON'S DISEASE (332)	1	1.6	3	5.1	-	-	18	6.4
EPILEPSY (345)	-	-	-	-	-	-	4	1.4
MAJOR CARDIOVASCULAR DISEASES (390-448)	314	489.1	210	359.0	38	513.5	898	320.7
DISEASES OF THE HEART (390-398, 402, 404-429)	223	347.4	151	258.1	27	364.9		
RHEUMATIC FEVER & CHRONIC RHEUMATIC HEART DISEASE (390-398)	1	1.6	4	6.8	-	-	10	3.6
HYPERTENSIVE HEART DISEASE WITH OR WITHOUT RENAL DISEASE (402, 404)	9	14.0	1	1.7	-	-	16	5.7
ISCHEMIC HEART DISEASE (410-414)	158	246.1	102	174.4	17	229.7	461	164.6
MYOCARDIAL INFARCTION (410)	63	98.1	52	88.9	7	94.6	193	68.9
OTHER ACUTE & SUBACUTE (411)	-	-	-	-	-	-	2	.7
CHRONIC ISCHEMIC HEART DISEASE (412-414)	95	148.0	50	85.5	10	135.1	266	95.0
ALL OTHER FORMS (415-429)	55	85.7	44	75.2	10	135.1	159	56.8
HYPERTENSION (401, 403)	2	3.1	5	8.5	1	13.5	12	4.3
CEREBROVASCULAR DISEASE (430-438)	64	99.7	40	68.4	7	94.6	181	64.6
SUBARACHNOID HEMORRHAGE (430)	3	4.7	1	1.7	-	-	7	2.5
INTRACEREBRAL & INTRACRANIAL HEMORRHAGES (431-432)	5	7.8	4	6.8	-	-	27	9.6
CEREBRAL THROMBOSIS & EMBOLISM (434)	4	6.2	2	3.4	3	40.5	32	11.4
ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE (436)	41	63.9	23	39.3	3	40.5	90	32.1
GENERALIZED ISCHEMIC CEREBROVASCULAR DISEASE (437)	9	14.0	5	8.5	-	-	16	5.7
ARTERIOSCLEROSIS (440)	11	17.1	5	8.5	-	-	31	11.1
OTHER DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES (441-448)	14	21.8	9	15.4	3	40.5	28	10.0
VENOUS THROMBOSIS & EMBOLISM (451-453)	1	1.6	-	-	-	-	3	1.1
PNEUMONIA (480-486)	25	38.9	25	42.7	4	54.1	64	22.9
INFLUENZA (487)	5	7.8	-	-	-	-	7	2.5
BRONCHITIS, EMPHYSEMA, ASTHMA, AND COPD (490-496)	45	70.1	40	68.4	2	27.0		
GASTRIC, DUODENAL, OR PEPTIC ULCER (531-533)	2	3.1	-	-	-	-		
HERNIA & INTESTINAL OBSTRUCTION (550-553, 560)	2	3.1	-	-	-	-	5	1.8
CIRRHOSIS OF THE LIVER (571)	15	23.4	5	8.5	-	-	21	7.5
ALCOHOLIC CIRRHOSIS (571.0-571.3)	14	21.8	4	6.8	-	-	18	6.4
DISEASES OF THE PANCREAS (577)	1	1.6	2	3.4	-	-	-	-
NEPHRITIS & NEPHROSIS (580-589)	3	4.7	1	1.7	-	-	11	3.9
INFECTIONS OF THE KIDNEY (590)	-	-	-	-	-	-	1	.4
DISEASES OF MALE GENITAL ORGANS (600-608)	-	-	-	-	-	-	-	-
DISEASES OF THE UTERUS AND OTHER FEMALE GENITAL ORGANS (614-629)	-	-	-	-	-	-	-	-
COMPLICATIONS OF PREGNANCY, CHILDBIRTH, & THE PUERPERIUM (630-676)	-	-	-	-	-	-	-	-
CONGENITAL ANOMALIES (740-759)	7	10.9	4	6.8	-	-	4	1.4
CERTAIN CAUSES IN EARLY INFANCY (760-779)	3	4.7	4	6.8	-	-	10	3.6
SENILITY (797)	1	1.6	-	-	-	-	3	1.1
SUDDEN INFANT DEATH SYNDROME (798.0)	2	3.1	-	-	-	-	8	2.9
UNINTENTIONAL INJURIES (800-949)	38	59.2	29	49.6	8	108.1	110	39.3
MOTOR VEHICLE-RELATED (810-825)	18	28.0	16	27.4	5	67.6	65	23.2
SUICIDES (950-959)	9	14.0	14	23.9	1	13.5	49	17.5
HOMICIDES (960-978)	5	7.8	6	10.3	-	-	9	3.2
INJURIES UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED (980-989)	2	3.1	-	-	-	-	2	.7

TABLE 4-21. DEATHS BY SELECTED CAUSES BY COUNTY, OREGON RESIDENTS, 1989, CONTINUED

SELECTED CAUSES OF DEATH	COUNTY OF RESIDENCE							
	LINCOLN		LINN		MALHEUR		MARION	
	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
TOTAL	463	1172.2	832	924.4	252	969.2	2,062	920.5
TUBERCULOSIS (010-018, 137)	-	-	1	1.1	-	-	1	.4
SEPTICEMIA (038)	1	2.5	3	3.3	-	-	7	3.1
AIDS (042-044)	1	2.5	4	4.4	-	-	5	2.2
MEASLES (055)	-	-	-	-	-	-	-	-
VIRAL HEPATITIS (070)	-	-	-	-	1	3.8	2	.9
OTHER INFECTIVE & PARASITIC DISEASES (RESIDUAL 001-139)	-	-	4	4.4	-	-	2	.9
MALIGNANT NEOPLASMS (140-208)	126	319.0	199	221.1	53	203.8	466	208.0
BUCCAL CAVITY & PHARYNX (140-149)	3	7.6	1	1.1	-	-	3	1.3
DIGESTIVE ORGANS & PERITONEUM (150-159)	38	96.2	48	53.3	13	50.0	123	54.9
LARGE INTESTINE (153)	14	35.4	20	22.2	3	11.5	58	25.9
PANCREAS (157)	9	22.8	13	14.4	5	19.2	21	9.4
RESPIRATORY/INTRATHORACIC ORGANS (160-165)	34	86.1	71	78.9	17	65.4	125	55.8
BRONCHUS AND LUNG (162.2-162.9)	33	83.5	68	75.6	16	61.5	118	52.7
MALIGNANT MELANOMA (172)	1	2.5	3	3.3	1	3.8	6	2.7
OTHER SKIN (173)	-	-	1	1.1	-	-	1	.4
BREAST (174-175)	10	25.3	17	18.9	3	11.5	37	16.5
GENITAL ORGANS (179-187)	19	48.1	25	27.8	6	23.1	63	28.1
CERVIX & UTERUS (179-182)	6	15.2	5	5.6	-	-	12	5.4
OVARY (183.0)	1	2.5	3	3.3	-	-	18	8.0
PROSTATE (185)	12	30.4	16	17.8	6	23.1	30	13.4
URINARY ORGANS (188-189)	4	10.1	7	7.8	1	3.8	22	9.8
LEUKEMIA (204-208)	4	10.1	7	7.8	1	3.8	15	6.7
BENIGN NEOPLASMS (210-229)	1	2.5	1	1.1	1	3.8	3	1.3
IN SITU, UNCERTAIN BEHAVIOR & UNSPECIFIED NATURE NEOPLASMS (230-239)	-	-	1	1.1	1	3.8	6	2.7
DIABETES MELLITUS (250)	3	7.6	15	16.7	5	19.2	41	18.3
NUTRITIONAL DEFICIENCIES (260-269)	-	-	2	2.2	-	-	4	1.8
ANEMIAS (280-285)	1	2.5	1	1.1	-	-	1	.4
ALZHEIMER'S DEMENTIA (290.1)	-	-	6	6.7	-	-	5	2.2
ALCOHOLIC PSYCHOSES & ALCOHOLISM (291, 303)	2	5.1	4	4.4	1	3.8	9	4.0
DRUG DEPENDENCE (304)	-	-	-	-	-	-	-	-
MENINGITIS (302-322)	-	-	1	1.1	1	3.8	-	-
ALZHEIMER'S DISEASE (331)	4	10.1	11	12.2	2	7.7	14	6.3
PARKINSON'S DISEASE (332)	1	2.5	6	6.7	2	7.7	4	1.8
EPILEPSY (345)	-	-	1	1.1	-	-	3	1.3
MAJOR CARDIOVASCULAR DISEASES (390-448)	199	503.8	338	375.5	117	450.0	930	415.2
DISEASES OF THE HEART (390-398, 402, 404-429)	146	369.6	246	273.3	89	342.3	-	-
RHEUMATIC FEVER & CHRONIC RHEUMATIC HEART DISEASE (390-398)	3	7.6	1	1.1	2	7.7	8	3.6
HYPERTENSIVE HEART DISEASE WITH OR WITHOUT RENAL DISEASE (402, 404)	2	5.1	7	7.8	2	7.7	27	12.1
ISCHEMIC HEART DISEASE (410-414)	121	306.3	169	187.8	69	265.4	473	211.2
MYOCARDIAL INFARCTION (410)	40	101.3	81	90.0	16	61.5	189	84.4
OTHER ACUTE & SUBACUTE (411)	-	-	-	-	-	-	2	.9
CHRONIC ISCHEMIC HEART DISEASE (412-414)	81	205.1	88	97.8	53	203.8	282	125.9
ALL OTHER FORMS (415-429)	20	50.6	69	76.7	16	61.5	157	70.1
HYPERTENSION (401, 403)	1	2.5	5	5.6	3	11.5	20	8.9
CEREBROVASCULAR DISEASE (430-438)	36	91.1	66	73.3	20	76.9	203	90.6
SUBARACHNOID HEMORRHAGE (430)	-	-	1	1.1	2	7.7	5	2.2
INTRACEREBRAL & INTRACRANIAL HEMORRHAGES (431-432)	6	15.2	7	7.8	5	19.2	24	10.7
CEREBRAL THROMBOSIS & EMBOLISM (434)	2	5.1	6	6.7	3	11.5	71	31.7
ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE (436)	25	63.3	39	43.3	10	38.5	83	37.1
GENERALIZED ISCHEMIC CEREBROVASCULAR DISEASE (437)	1	2.5	7	7.8	-	-	8	3.6
ARTERIOSCLEROSIS (440)	12	30.4	8	8.9	-	-	17	7.6
OTHER DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES (441-448)	4	10.1	13	14.4	5	19.2	25	11.2
VENOUS THROMBOSIS & EMBOLISM (451-453)	2	5.1	-	-	1	3.8	1	.4
PNEUMONIA (480-486)	14	35.4	26	28.9	6	23.1	68	30.4
INFLUENZA (487)	2	5.1	-	-	1	3.8	11	4.9
BRONCHITIS, EMPHYSEMA, ASTHMA, AND COPD (490-496)	23	58.2	45	50.0	15	57.7	-	-
GASTRIC, DUODENAL, OR PEPTIC ULCER (531-533)	2	5.1	2	2.2	1	3.8	-	-
HERNIA & INTESTINAL OBSTRUCTION (550-553, 560)	2	5.1	1	1.1	-	-	3	1.3
CIRRHOSIS OF THE LIVER (571)	4	10.1	5	5.6	4	15.4	24	10.7
ALCOHOLIC CIRRHOSIS (571.0-571.3)	4	10.1	4	4.4	3	11.5	17	7.6
DISEASES OF THE PANCREAS (577)	-	-	1	1.1	-	-	-	-
NEPHRITIS & NEPHROSIS (580-589)	-	-	9	10.0	3	11.5	7	3.1
INFECTIONS OF THE KIDNEY (590)	1	2.5	2	2.2	-	-	6	2.7
DISEASES OF MALE GENITAL ORGANS (600-608)	-	-	-	-	-	-	-	-
DISEASES OF THE UTERUS AND OTHER FEMALE GENITAL ORGANS (614-629)	-	-	-	-	-	-	1	.4
COMPLICATIONS OF PREGNANCY, CHILDBIRTH, & THE PUERPERIUM (630-676)	-	-	-	-	-	-	-	-
CONGENITAL ANOMALIES (740-759)	3	7.6	3	3.3	1	3.8	13	5.8
CERTAIN CAUSES IN EARLY INFANCY (760-779)	2	5.1	5	5.6	2	7.7	18	8.0
SENILITY (797)	-	-	-	-	1	3.8	1	.4
SUDDEN INFANT DEATH SYNDROME (798.0)	1	2.5	2	2.2	2	7.7	8	3.6
UNINTENTIONAL INJURIES (800-949)	24	60.8	48	53.3	14	53.8	96	42.9
MOTOR VEHICLE-RELATED (810-825)	9	22.8	29	32.2	8	30.8	55	24.6
SUICIDES (950-959)	9	22.8	18	20.0	4	15.4	30	13.4
HOMICIDES (960-978)	1	2.5	6	6.7	1	3.8	11	4.9
INJURIES UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED (980-989)	-	-	-	-	-	-	4	1.8

TABLE 4-21. DEATHS BY SELECTED CAUSES BY COUNTY, OREGON RESIDENTS, 1989, CONTINUED

SELECTED CAUSES OF DEATH	COUNTY OF RESIDENCE							
	MORROW		MULTNOMAH		POLK		SHERMAN	
	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
TOTAL	69	920.0	5,691	979.5	413	864.0	27	1350.0
TUBERCULOSIS (010-018, 137)	-	-	6	1.0	1	2.1	-	-
SEPTICEMIA (038)	-	-	25	4.3	-	-	-	-
AIDS (042-044)	-	-	72	12.4	-	-	-	-
MEASLES (055)	-	-	-	-	-	-	-	-
VIRAL HEPATITIS (070)	1	13.3	9	1.5	1	2.1	-	-
OTHER INFECTIVE & PARASITIC DISEASES (RESIDUAL 001-139)	-	-	19	3.3	1	2.1	-	-
MALIGNANT NEOPLASMS (140-208)	15	200.0	1,272	218.9	87	182.0	12	600.0
BUCCAL CAVITY & PHARYNX (140-149)	-	-	23	4.0	2	4.2	-	-
DIGESTIVE ORGANS & PERITONEUM (150-159)	2	26.7	282	48.5	16	33.5	5	250.0
LARGE INTESTINE (153)	-	-	105	18.1	11	23.0	1	50.0
PANCREAS (157)	1	13.3	71	12.2	2	4.2	2	100.0
RESPIRATORY/INTRATHORACIC ORGANS (160-165)	9	120.0	398	68.5	27	56.5	3	150.0
BRONCHUS AND LUNG (162.2-162.9)	9	120.0	381	65.6	27	56.5	3	150.0
MALIGNANT MELANOMA (172)	1	13.3	17	2.9	1	2.1	-	-
OTHER SKIN (173)	-	-	8	1.4	-	-	-	-
BREAST (174-175)	-	-	92	15.8	10	20.9	-	-
GENITAL ORGANS (179-187)	-	-	134	23.1	15	31.4	1	50.0
CERVIX & UTERUS (179-182)	-	-	20	3.4	3	6.3	-	-
OVARY (183.0)	-	-	40	6.9	2	4.2	-	-
PROSTATE (185)	-	-	68	11.7	10	20.9	1	50.0
URINARY ORGANS (188-189)	-	-	42	7.2	2	4.2	2	100.0
LEUKEMIA (204-208)	-	-	48	8.3	2	4.2	-	-
BENIGN NEOPLASMS (210-229)	-	-	6	1.0	1	2.1	-	-
IN SITU, UNCERTAIN BEHAVIOR & UNSPECIFIED NATURE NEOPLASMS (230-239)	-	-	7	1.2	2	4.2	-	-
DIABETES MELLITUS (250)	1	13.3	102	17.6	10	20.9	-	-
NUTRITIONAL DEFICIENCIES (260-269)	-	-	9	1.5	2	4.2	-	-
ANEMIAS (280-285)	-	-	9	1.5	1	2.1	-	-
ALZHEIMER'S DEMENTIA (290.1)	2	26.7	13	2.2	-	-	-	-
ALCOHOLIC PSYCHOSES & ALCOHOLISM (291, 303)	-	-	32	5.5	1	2.1	-	-
DRUG DEPENDENCE (304)	-	-	6	1.0	1	2.1	-	-
MENINGITIS (302-322)	-	-	1	2	-	-	-	-
ALZHEIMER'S DISEASE (331)	1	13.3	61	10.5	5	10.5	-	-
PARKINSON'S DISEASE (332)	-	-	36	6.2	2	4.2	-	-
EPILEPSY (345)	-	-	7	1.2	-	-	-	-
MAJOR CARDIOVASCULAR DISEASES (390-448)	20	266.7	2,355	405.3	192	401.7	10	500.0
DISEASES OF THE HEART (390-398, 402, 404-429)	17	226.7	1,689	290.7	130	272.0	-	-
RHEUMATIC FEVER & CHRONIC RHEUMATIC HEART DISEASE (390-398)	-	-	17	2.9	1	2.1	-	-
HYPERTENSIVE HEART DISEASE WITH OR WITHOUT RENAL DISEASE (402, 404)	-	-	49	8.4	6	12.6	2	100.0
ISCHEMIC HEART DISEASE (4[illegible]0-414)	14	186.7	1,238	213.1	85	177.8	5	250.0
MYOCARDIAL INFARCTION (410)	8	106.7	453	78.0	36	75.3	3	150.0
OTHER ACUTE & SUBACUTE (411)	-	-	1	2	-	-	-	-
CHRONIC ISCHEMIC HEART DISEASE (412-414)	6	80.0	784	134.9	49	102.5	2	100.0
ALL OTHER FORMS (415-429)	3	40.0	385	66.3	38	79.5	2	100.0
HYPERTENSION (401, 403)	1	13.3	35	6.0	2	4.2	-	-
CEREBROVASCULAR DISEASE (430-438)	2	26.7	479	82.4	41	85.8	1	50.0
SUBARACHNOID HEMORRHAGE (430)	-	-	21	3.6	1	2.1	-	-
INTRACEREBRAL & INTRACRANIAL HEMORRHAGES (431-432)	-	-	53	9.1	1	2.1	-	-
CEREBRAL THROMBOSIS & EMBOLISM (434)	-	-	62	10.7	13	27.2	-	-
ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE (436)	1	13.3	279	48.0	25	52.3	1	50.0
GENERALIZED ISCHEMIC CEREBROVASCULAR DISEASE (437)	-	-	30	5.2	1	2.1	-	-
ARTERIOSCLEROSIS (440)	-	-	80	13.8	8	16.7	-	-
OTHER DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES (441-448)	-	-	72	12.4	11	23.0	-	-
VENOUS THROMBOSIS & EMBOLISM (451-453)	-	-	3	5	-	-	-	-
PNEUMONIA (480-486)	2	26.7	205	35.3	12	25.1	1	50.0
INFLUENZA (487)	-	-	6	1.0	1	2.1	-	-
BRONCHITIS, EMPHYSEMA, ASTHMA, AND COPD (490-496)	4	53.3	267	46.0	27	56.5	-	-
GASTRIC, DUODENAL, OR PEPTIC ULCER (531-533)	-	-	20	3.4	-	-	-	-
HERNIA & INTESTINAL OBSTRUCTION (550-553, 560)	-	-	14	2.4	1	2.1	-	-
CIRRHOSIS OF THE LIVER (571)	1	13.3	86	14.8	1	2.1	-	-
ALCOHOLIC CIRRHOSIS (571.0-571.3)	1	13.3	73	12.6	-	-	-	-
DISEASES OF THE PANCREAS (577)	-	-	8	1.4	1	2.1	-	-
NEPHRITIS & NEPHROSIS (580-589)	2	26.7	41	7.1	1	2.1	-	-
INFECTIONS OF THE KIDNEY (590)	1	13.3	3	5	2	4.2	1	50.0
DISEASES OF MALE GENITAL ORGANS (600-608)	-	-	3	5	-	-	-	-
DISEASES OF THE UTERUS AND OTHER FEMALE GENITAL ORGANS (614-629)	-	-	1	2	-	-	-	-
COMPLICATIONS OF PREGNANCY, CHILDBIRTH, & THE PUERPERIUM (630-676)	-	-	1	2	-	-	-	-
CONGENITAL ANOMALIES (740-759)	1	13.3	32	5.5	2	4.2	-	-
CERTAIN CAUSES IN EARLY INFANCY (760-779)	2	26.7	47	8.1	2	4.2	-	-
SENILITY (797)	-	-	1	2	-	-	-	-
SUDDEN INFANT DEATH SYNDROME (798.0)	-	-	32	5.5	-	-	-	-
UNINTENTIONAL INJURIES (800-949)	11	146.7	194	33.4	19	39.7	1	50.0
MOTOR VEHICLE-RELATED (810-825)	10	133.3	94	16.2	8	16.7	-	-
SUICIDES (950-959)	1	13.3	117	20.1	6	12.6	1	50.0
HOMICIDES (960-978)	-	-	50	8.6	3	6.3	1	50.0
INJURIES UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED (980-989)	1	13.3	23	4.0	-	-	-	-

TABLE 4-21. DEATHS BY SELECTED CAUSES BY COUNTY, OREGON RESIDENTS, 1989, CONTINUED

SELECTED CAUSES OF DEATH	COUNTY OF RESIDENCE							
	TILLAMOOK		UMATILLA		UNION		WALLOWA	
	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
TOTAL	236	1092.6	512	881.2	221	948.5	81	1125.0
TUBERCULOSIS (010-018, 137)	-	-	-	-	-	-	-	-
SEPTICEMIA (038)	1	4.6	4	6.9	-	-	-	-
AIDS (042-044)	-	-	2	3.4	-	-	-	-
MEASLES (055)	-	-	-	-	-	-	-	-
VIRAL HEPATITIS (070)	-	-	2	3.4	-	-	-	-
OTHER INFECTIVE & PARASITIC DISEASES (RESIDUAL 001-139)	4	18.5	1	1.7	-	-	1	13.9
MALIGNANT NEOPLASMS (140-208)	65	300.9	125	215.1	48	206.0	15	208.3
BUCCAL CAVITY & PHARYNX (140-149)	2	9.3	1	1.7	1	4.3	-	-
DIGESTIVE ORGANS & PERITONEUM (150-159)	13	60.2	27	46.5	7	30.0	3	41.7
LARGE INTESTINE (153)	5	23.1	12	20.7	4	17.2	3	41.7
PANCREAS (157)	3	13.9	6	10.3	1	4.3	-	-
RESPIRATORY/INTRATHORACIC ORGANS (160-165)	21	97.2	41	70.6	14	60.1	4	55.6
BRONCHUS AND LUNG (162.2-162.9)	20	92.6	40	68.8	12	51.5	4	55.6
MALIGNANT MELANOMA (172)	2	9.3	2	3.4	2	8.6	-	-
OTHER SKIN (173)	-	-	2	3.4	-	-	-	-
BREAST (174-175)	3	13.9	7	12.0	5	21.5	2	27.8
GENITAL ORGANS (179-187)	10	46.3	16	27.5	7	30.0	3	41.7
CERVIX & UTERUS (179-182)	-	-	5	8.6	2	8.6	-	-
OVARY (183.0)	5	23.1	3	5.2	1	4.3	1	13.9
PROSTATE (185)	5	23.1	7	12.0	4	17.2	2	27.8
URINARY ORGANS (188-189)	3	13.9	-	-	1	4.3	1	13.9
LEUKEMIA (204-208)	1	4.6	5	8.6	2	8.6	-	-
BENIGN NEOPLASMS (210-229)	-	-	1	1.7	-	-	-	-
IN SITU, UNCERTAIN BEHAVIOR & UNSPECIFIED NATURE NEOPLASMS (230-239)	-	-	1	1.7	1	4.3	1	13.9
DIABETES MELLITUS (250)	3	13.9	10	17.2	5	21.5	1	13.9
NUTRITIONAL DEFICIENCIES (260-269)	-	-	-	-	1	4.3	-	-
ANEMIAS (280-285)	-	-	-	-	-	-	-	-
ALZHEIMER'S DEMENTIA (290.1)	1	4.6	3	5.2	1	4.3	-	-
ALCOHOLIC PSYCHOSES & ALCOHOLISM (291, 303)	2	9.3	1	1.7	-	-	-	-
DRUG DEPENDENCE (304)	1	4.6	-	-	-	-	-	-
MENINGITIS (302-322)	-	-	-	-	-	-	-	-
ALZHEIMER'S DISEASE (331)	2	9.3	4	6.9	2	8.6	1	13.9
PARKINSON'S DISEASE (332)	-	-	2	3.4	-	-	-	-
EPILEPSY (345)	-	-	2	3.4	-	-	-	-
MAJOR CARDIOVASCULAR DISEASES (390-448)	94	435.2	191	328.7	87	373.4	36	500.0
DISEASES OF THE HEART (390-398, 402, 404-429)	73	338.0	137	235.8	63	270.4	-	-
RHEUMATIC FEVER & CHRONIC RHEUMATIC HEART DISEASE (390-398)	-	-	1	1.7	2	8.6	-	-
HYPERTENSIVE HEART DISEASE WITH OR WITHOUT RENAL DISEASE (402, 404)	1	4.6	1	1.7	1	4.3	-	-
ISCHEMIC HEART DISEASE (410-414)	55	254.6	111	191.0	47	201.7	25	347.2
MYOCARDIAL INFARCTION (410)	14	64.8	43	74.0	16	68.7	4	55.6
OTHER ACUTE & SUBACUTE (411)	-	-	-	-	-	-	-	-
CHRONIC ISCHEMIC HEART DISEASE (412-414)	41	189.8	68	117.0	31	133.0	21	291.7
ALL OTHER FORMS (415-429)	17	78.7	24	41.3	13	55.8	5	69.4
HYPERTENSION (401, 403)	2	9.3	2	3.4	-	-	-	-
CEREBROVASCULAR DISEASE (430-438)	12	55.6	40	68.8	17	73.0	4	55.6
SUBARACHNOID HEMORRHAGE (430)	-	-	1	1.7	1	4.3	-	-
INTRACEREBRAL & INTRACRANIAL HEMORRHAGES (431-432)	2	9.3	6	10.3	-	-	-	-
CEREBRAL THROMBOSIS & EMBOLISM (434)	-	-	3	5.2	2	8.6	-	-
ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE (436)	9	41.7	24	41.3	14	60.1	2	27.8
GENERALIZED ISCHEMIC CEREBROVASCULAR DISEASE (437)	-	-	1	1.7	-	-	2	27.8
ARTERIOSCLEROSIS (440)	4	18.5	6	10.3	3	12.9	-	-
OTHER DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES (441-448)	3	13.9	6	10.3	4	17.2	2	27.8
VENOUS THROMBOSIS & EMBOLISM (451-453)	-	-	-	-	-	-	1	13.9
PNEUMONIA (480-486)	5	23.1	22	37.9	10	42.9	3	41.7
INFLUENZA (487)	-	-	2	3.4	-	-	-	-
BRONCHITIS, EMPHYSEMA, ASTHMA, AND COPD (490-496)	12	55.6	28	48.2	18	77.3	-	-
GASTRIC, DUODENAL, OR PEPTIC ULCER (531-533)	-	-	3	5.2	1	4.3	-	-
HERNIA & INTESTINAL OBSTRUCTION (550-553, 560)	1	4.6	1	1.7	-	-	-	-
CIRRHOSIS OF THE LIVER (571)	4	18.5	8	13.8	2	8.6	2	27.8
ALCOHOLIC CIRRHOSIS (571.0-571.3)	3	13.9	4	6.9	-	-	-	-
DISEASES OF THE PANCREAS (577)	-	-	-	-	1	4.3	-	-
NEPHRITIS & NEPHROSIS (580-589)	1	4.6	1	1.7	-	-	1	13.9
INFECTIONS OF THE KIDNEY (590)	-	-	1	1.7	-	-	-	-
DISEASES OF MALE GENITAL ORGANS (600-608)	-	-	-	-	-	-	-	-
DISEASES OF THE UTERUS AND OTHER FEMALE GENITAL ORGANS (614-629)	-	-	-	-	-	-	-	-
COMPLICATIONS OF PREGNANCY, CHILDBIRTH, & THE PUERPERIUM (630-676)	-	-	-	-	-	-	-	-
CONGENITAL ANOMALIES (740-759)	3	13.9	2	3.4	1	4.3	-	-
CERTAIN CAUSES IN EARLY INFANCY (760-779)	2	9.3	7	12.0	2	8.6	-	-
SENILITY (797)	1	4.6	-	-	-	-	-	-
SUDDEN INFANT DEATH SYNDROME (798.0)	-	-	-	-	3	12.9	1	13.9
UNINTENTIONAL INJURIES (800-949)	9	41.7	29	49.9	11	47.2	4	55.6
MOTOR VEHICLE-RELATED (810-825)	4	18.5	19	32.7	5	21.5	2	27.8
SUICIDES (950-959)	1	4.6	10	17.2	6	25.8	2	27.8
HOMICIDES (960-978)	2	9.3	3	5.2	1	4.3	1	13.9
INJURIES UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED (980-989)	1	4.6	-	-	1	4.3	-	-

TABLE 4-21. DEATHS BY SELECTED CAUSES BY COUNTY, OREGON RESIDENTS, 1989, CONTINUED

SELECTED CAUSES OF DEATH	COUNTY OF RESIDENCE							
	WASCO		WASHINGTON		WHEELER		YAMHILL	
	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
TOTAL	205	971.6	1,791	607.1	14	1000.0	558	919.3
TUBERCULOSIS (010-018, 137)	-	-	-	-	-	-	-	-
SEPTICEMIA (038)	-	-	8	2.7	-	-	3	4.9
AIDS (042-044)	-	-	16	5.4	-	-	-	-
MEASLES (055)	-	-	-	-	-	-	-	-
VIRAL HEPATITIS (070)	-	-	1	.3	-	-	1	1.6
OTHER INFECTIVE & PARASITIC DISEASES (RESIDUAL 001-139)	-	-	7	2.4	-	-	1	1.6
MALIGNANT NEOPLASMS (140-208)	47	222.7	441	149.5	6	428.6	116	191.1
BUCCAL CAVITY & PHARYNX (140-149)	1	4.7	10	3.4	-	-	-	-
DIGESTIVE ORGANS & PERITONEUM (150-159)	8	37.9	98	33.2	1	71.4	30	49.4
LARGE INTESTINE (153)	5	23.7	30	10.2	1	71.4	5	8.2
PANCREAS (157)	1	4.7	25	8.5	-	-	10	16.5
RESPIRATORY/INTRATHORACIC ORGANS (160-165)	18	85.3	136	46.1	1	71.4	27	44.5
BRONCHUS AND LUNG (162.2-162.9)	17	80.6	131	44.4	1	71.4	26	42.8
MALIGNANT MELANOMA (172)	-	-	4	1.4	-	-	1	1.6
OTHER SKIN (173)	-	-	-	-	-	-	-	-
BREAST (174-175)	6	28.4	38	12.9	1	71.4	8	13.2
GENITAL ORGANS (179-187)	6	28.4	48	16.3	2	142.9	14	23.1
CERVIX & UTERUS (179-182)	-	-	7	2.4	-	-	2	3.3
OVARY (183.0)	-	-	11	3.7	-	-	2	3.3
PROSTATE (185)	6	28.4	30	10.2	2	142.9	10	16.5
URINARY ORGANS (188-189)	1	4.7	22	7.5	1	71.4	4	6.6
LEUKEMIA (204-208)	1	4.7	12	4.1	-	-	6	9.9
BENIGN NEOPLASMS (210-229)	-	-	2	.7	-	-	-	-
IN SITU, UNCERTAIN BEHAVIOR & UNSPECIFIED NATURE NEOPLASMS (230-239)	-	-	6	2.0	-	-	-	-
DIABETES MELLITUS (250)	3	14.2	32	10.8	-	-	10	16.5
NUTRITIONAL DEFICIENCIES (260-269)	-	-	2	.7	-	-	-	-
ANEMIAS (280-285)	1	4.7	2	.7	-	-	1	1.6
ALZHEIMER'S DEMENTIA (290.1)	-	-	12	4.1	-	-	2	3.3
ALCOHOLIC PSYCHOSES & ALCOHOLISM (291, 303)	-	-	9	3.1	-	-	1	1.6
DRUG DEPENDENCE (304)	-	-	2	.7	-	-	-	-
MENINGITIS (302-322)	-	-	-	-	-	-	-	-
ALZHEIMER'S DISEASE (331)	4	19.0	18	6.1	-	-	6	9.9
PARKINSON'S DISEASE (332)	3	14.2	11	3.7	-	-	3	4.9
EPILEPSY (345)	1	4.7	-	-	-	-	-	-
MAJOR CARDIOVASCULAR DISEASES (390-448)	81	383.9	752	254.9	4	285.7	259	426.7
DISEASES OF THE HEART (390-398, 402, 404-429)	63	298.6	534	181.0	3	214.3		
RHEUMATIC FEVER & CHRONIC RHEUMATIC HEART DISEASE (390-398)	-	-	10	3.4	-	-	1	1.6
HYPERTENSIVE HEART DISEASE WITH OR WITHOUT RENAL DISEASE (402, 404)	2	9.5	18	6.1	-	-	1	1.6
ISCHEMIC HEART DISEASE (410-414)	48	227.5	392	132.9	2	142.9	147	242.2
MYOCARDIAL INFARCTION (410)	21	99.5	157	53.2	-	-	50	82.4
OTHER ACUTE & SUBACUTE (411)	-	-	1	.3	-	-	-	-
CHRONIC ISCHEMIC HEART DISEASE (412-414)	27	128.0	234	79.3	2	142.9	97	159.8
ALL OTHER FORMS (415-429)	13	61.6	114	38.6	1	71.4	47	77.4
HYPERTENSION (401, 403)	1	4.7	11	3.7	-	-	3	4.9
CEREBROVASCULAR DISEASE (430-438)	15	71.1	145	49.2	-	-	41	67.5
SUBARACHNOID HEMORRHAGE (430)	1	4.7	11	3.7	-	-	-	-
INTRACEREBRAL & INTRACRANIAL HEMORRHAGES (431-432)	1	4.7	24	8.1	-	-	2	3.3
CEREBRAL THROMBOSIS & EMBOLISM (434)	1	4.7	19	6.4	-	-	8	13.2
ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE (436)	11	52.1	71	24.1	-	-	23	37.9
GENERALIZED ISCHEMIC CEREBROVASCULAR DISEASE (437)	-	-	6	2.0	-	-	6	9.9
ARTERIOSCLEROSIS (440)	1	4.7	32	10.8	1	71.4	8	13.2
OTHER DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES (441-448)	1	4.7	30	10.2	-	-	11	18.1
VENOUS THROMBOSIS & EMBOLISM (451-453)	1	4.7	-	-	-	-	-	-
PNEUMONIA (480-486)	19	90.0	52	17.6	-	-	30	49.4
INFLUENZA (487)	-	-	3	1.0	-	-	-	-
BRONCHITIS, EMPHYSEMA, ASTHMA, AND COPD (490-496)	11	52.1	84	28.5	-	-		
GASTRIC, DUODENAL, OR PEPTIC ULCER (531-533)	2	9.5	4	1.4	-	-		
HERNIA & INTESTINAL OBSTRUCTION (550-553, 560)	1	4.7	4	1.4	-	-	4	6.6
CIRRHOSIS OF THE LIVER (571)	2	9.5	10	3.4	-	-	2	3.3
ALCOHOLIC CIRRHOSIS (571.0-571.3)	1	4.7	9	3.1	-	-	2	3.3
DISEASES OF THE PANCREAS (577)	-	-	1	.3	-	-	2	3.3
NEPHRITIS & NEPHROSIS (580-589)	1	4.7	6	2.0	-	-	4	6.6
INFECTIONS OF THE KIDNEY (590)	1	4.7	1	.3	-	-	1	1.6
DISEASES OF MALE GENITAL ORGANS (600-608)	-	-	-	-	-	-	2	3.3
DISEASES OF THE UTERUS AND OTHER FEMALE GENITAL ORGANS (614-629)	-	-	-	-	-	-	-	-
COMPLICATIONS OF PREGNANCY, CHILDBIRTH, & THE PUERPERIUM (630-676)	-	-	-	-	-	-	1	1.6
CONGENITAL ANOMALIES (740-759)	-	-	7	2.4	-	-	1	1.6
CERTAIN CAUSES IN EARLY INFANCY (760-779)	-	-	13	4.4	-	-	3	4.9
SENILITY (797)	-	-	3	1.0	-	-	-	-
SUDDEN INFANT DEATH SYNDROME (798.0)	1	4.7	10	3.4	-	-	-	-
UNINTENTIONAL INJURIES (800-949)	11	52.1	71	24.1	-	-	28	46.1
MOTOR VEHICLE-RELATED (810-825)	5	23.7	29	9.8	-	-	18	29.7
SUICIDES (950-959)	3	14.2	38	12.9	2	142.9	8	13.2
HOMICIDES (960-978)	1	4.7	10	3.4	-	-	2	3.3
INJURIES UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED (980-989)	-	-	4	1.4	-	-	-	-

TABLE 4-22. DEATHS BY SELECTED CAUSES BY RACE, OREGON RESIDENTS, 1989

SELECTED CAUSES OF DEATH	RACE							
	Oregon	White	African American	Indian	Chinese And Japanese	Other Asian & Pacific Islanders	Other Non-white & Not Stated 1/	Hispanic 2/
TOTAL	24,679	23,952	352	166	99	63	47	212
TUBERCULOSIS (010-018, 137)	18	15	2	-	1	-	-	
SEPTICEMIA (038)	92	88	2	1	1	-	-	-
AIDS (042-044)	135	128	3	3	1	-	-	7
MEASLES (055)	-	-	-	-	-	-	-	-
VIRAL HEPATITIS (070)	25	22	1	2	-	-	-	-
OTHER INFECTIVE & PARASITIC DISEASES (RESIDUAL 001-139)	70	62	2	4	-	2	-	2
MALIGNANT NEOPLASMS (140-208)	5,819	5,659	86	28	28	7	11	31
BUCCAL CAVITY & PHARYNX (140-149)	84	78	3	-	2	-	1	-
DIGESTIVE ORGANS & PERITONEUM (150-159)	1,342	1,295	25	11	7	3	1	10
LARGE INTESTINE (153)	513	503	7	2	1	-	-	5
PANCREAS (157)	326	320	3	2	-	1	-	-
RESPIRATORY/INTRATHORACIC ORGANS (160-165)	1,794	1,752	27	8	5	1	1	8
BRONCHUS AND LUNG (162.2-162.9)	1,727	1,686	27	7	5	1	1	7
MALIGNANT MELANOMA (172)	79	79	-	-	-	-	-	-
OTHER SKIN (173)	18	17	-	-	1	-	-	-
BREAST (174-175)	443	434	4	-	3	-	2	1
GENITAL ORGANS (179-187)	699	675	12	5	3	-	4	3
CERVIX & UTERUS (179-182)	115	106	5	1	1	-	2	1
OVARY (183.0)	160	155	-	2	2	-	1	-
PROSTATE (185)	404	395	7	1	-	-	1	2
URINARY ORGANS (188-189)	222	218	2	1	-	1	-	2
LEUKEMIA (204-208)	219	218	-	-	1	-	-	-
BENIGN NEOPLASMS (210-229)	24	22	1	-	1	-	-	-
IN SITU, UNCERTAIN BEHAVIOR & UNSPECIFIED NATURE NEOPLASMS (230-239)	53	53	-	-	-	-	-	-
DIABETES MELLITUS (250)	450	430	10	6	2	2	-	11
NUTRITIONAL DEFICIENCIES (260-269)	28	28	-	-	-	-	-	-
ANEMIAS (280-285)	32	30	1	-	1	-	-	-
ALZHEIMER'S DEMENTIA (290.1)	88	87	1	-	-	-	-	-
ALCOHOLIC PSYCHOSES & ALCOHOLISM (291, 303)	106	98	1	5	-	2	-	
DRUG DEPENDENCE (304)	13	12	1	-	-	-	-	-
MENINGITIS (302-322)	7	6	1	-	-	-	-	-
ALZHEIMER'S DISEASE (331)	267	264	1	1	1	-	-	-
PARKINSON'S DISEASE (332)	130	130	-	-	-	-	-	1
EPILEPSY (345)	27	26	-	1	-	-	-	1
MAJOR CARDIOVASCULAR DISEASES (390-448)	10,338	10,092	122	48	40	16	20	39
DISEASES OF THE HEART (390-398, 402, 404-429)	7,494	7,312	87	37	29	12		
RHEUMATIC FEVER & CHRONIC RHEUMATIC HEART DISEASE (390-398)	87	85	-	1	-	-	1	-
HYPERTENSIVE HEART DISEASE WITH OR WITHOUT RENAL DISEASE (402, 404)	218	210	4	-	3	-	1	1
ISCHEMIC HEART DISEASE (410-414)	5,442	5,310	64	29	19	9	11	20
MYOCARDIAL INFARCTION (410)	2,096	2,053	11	11	9	6	6	12
OTHER ACUTE & SUBACUTE (411)	9	9	-	-	-	-	-	-
CHRONIC ISCHEMIC HEART DISEASE (412-414)	3,337	3,248	53	18	10	3	5	8
ALL OTHER FORMS (415-429)	1,747	1,707	19	7	7	3	4	4
HYPERTENSION (401, 403)	139	131	5	3	-	-	-	
CEREBROVASCULAR DISEASE (430-438)	2,006	1,960	26	6	7	4	3	11
SUBARACHNOID HEMORRHAGE (430)	79	74	2	1	2	-	-	3
INTRACEREBRAL & INTRACRANIAL HEMORRHAGES (431-432)	229	219	3	1	3	3	-	2
CEREBRAL THROMBOSIS & EMBOLISM (434)	314	310	3	-	1	-	-	3
ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE (436)	1,115	1,094	14	4	-	1	2	2
GENERALIZED ISCHEMIC CEREBROVASCULAR DISEASE (437)	143	138	3	-	1	-	1	1
ARTERIOSCLEROSIS (440)	355	350	-	2	3	-	-	1
OTHER DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES (441-448)	344	339	4	-	1	-	-	1
VENOUS THROMBOSIS & EMBOLISM (451-453)	18	17	1	-	-	-	-	-
PNEUMONIA (480-486)	871	856	4	5	2	2	2	2
INFLUENZA (487)	53	52	-	1	-	-	-	1
BRONCHITIS, EMPHYSEMA, ASTHMA, AND COPD (490-496)	1,272	1,247	10	5	3	4		
GASTRIC, DUODENAL, OR PEPTIC ULCER (531-533)	69	66	2	-	1	-		
HERNIA & INTESTINAL OBSTRUCTION (550-553, 560)	52	51	1	-	-	-		
CIRRHOSIS OF THE LIVER (571)	263	245	8	10	-	-	-	10
ALCOHOLIC CIRRHOSIS (571.0-571.3)	213	200	4	9	-	-	-	9
DISEASES OF THE PANCREAS (577)	25	25	-	-	-	-	-	-
NEPHRITIS & NEPHROSIS (580-589)	127	122	2	2	-	-	1	3
INFECTIONS OF THE KIDNEY (590)	27	27	-	-	-	-	-	-
DISEASES OF MALE GENITAL ORGANS (600-608)	6	6	-	-	-	-	-	-
DISEASES OF THE UTERUS AND OTHER FEMALE GENITAL ORGANS (614-629)	2	2	-	-	-	-	-	-
COMPLICATIONS OF PREGNANCY, CHILDBIRTH, & THE PUERPERIUM (630-676)	4	3	-	-	-	1	-	-
CONGENITAL ANOMALIES (740-759)	121	111	3	3	-	4	-	11
CERTAIN CAUSES IN EARLY INFANCY (760-779)	170	158	9	-	1	2	-	9
SENILITY (797)	13	13	-	-	-	-	-	-
SUDDEN INFANT DEATH SYNDROME (798.0)	93	77	11	4	-	1	-	5
UNINTENTIONAL INJURIES (800-949)	1,151	1,100	17	16	4	10	4	33
MOTOR VEHICLE-RELATED (810-825)	614	588	8	8	2	5	3	21
SUICIDES (950-959)	459	448	3	3	2	2	1	13
HOMICIDES (960-978)	146	121	14	4	3	2	2	11
INJURIES UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED (980-989)	54	48	3	-	-	1	2	1

1/ OTHER NON-WHITE INCLUDES GROUPS IN WHICH THE STATE TOTAL IS LESS THAN 20 (I.E., HAWAIIAN, FILIPINO).
2/ DECEDENTS OF HISPANIC ETHNICITY MAY BELONG TO ANY RACE. NEARLY ALL (198) ARE WHITE.

TABLE 4-23. YEARS OF POTENTIAL LIFE LOST BY CAUSE, OREGON RESIDENTS, 1989

SELECTED CAUSES OF DEATH	BEFORE AGE 65			BEFORE AGE 70			BEFORE AGE 75		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
TOTAL	116,879	77,130	39,748	153,275	100336	52,938	201,208	130,442	70,766
TUBERCULOSIS (010-018, 137)	14	3	11	37	13	24	67	23	44
SEPTICEMIA (038)	190	169	21	305	244	61	460	334	126
AIDS (042-044)	3,304	3,197	107	3,963	3,836	127	4,633	4,481	152
MEASLES (055)	-	-	-	-	-	-	-	-	-
VIRAL HEPATITIS (070)	281	145	136	359	188	171	449	238	211
OTHER INFECTIVE & PARASITIC DISEASES (RESIDUAL 001-139)	778	466	312	930	558	372	1,088	649	439
MALIGNANT NEOPLASMS (140-208)	17,925	8,931	8,994	28,551	14,513	14,038	44,006	22,861	21,145
BUCCAL CAVITY & PHARYNX (140-149)	266	204	62	466	345	121	723	529	194
DIGESTIVE ORGANS & PERITONEUM (150-159)	3,034	1,961	1,073	5,178	3,333	1,845	8,351	5,333	3,018
LARGE INTESTINE (153)	908	527	381	1,632	966	666	2,687	1,603	1,084
PANCREAS (157)	727	436	291	1,295	756	539	2,114	1,212	902
RESPIRATORY/INTRATHORACIC ORGANS (160-165)	4,150	2,281	1,869	7,788	4,395	3,393	13,228	7,648	5,580
BRONCHUS AND LUNG (162.2-162.9)	3,932	2,169	1,763	7,449	4,228	3,221	12,696	7,384	5,312
MALIGNANT MELANOMA (172)	954	618	336	1,220	799	421	1,528	1,014	514
OTHER SKIN (173)	29	22	7	55	43	12	85	68	17
BREAST (174-175)	2,041	27	2,014	3,085	42	3,043	4,459	62	4,397
GENITAL ORGANS (179-187)	1,552	354	1,198	2,511	700	1,811	3,986	1,326	2,660
CERVIX & UTERUS (179-182)	697	-	697	975	-	975	1,341	-	1,341
OVARY (183.0)	494	-	494	814	-	814	1,282	-	1,282
PROSTATE (185)	196	196	-	506	506	-	1,092	1,092	-
URINARY ORGANS (188-189)	456	233	223	783	436	347	1,301	772	529
LEUKEMIA (204-208)	1,547	803	744	1,904	987	917	2,420	1,281	1,139
BENIGN NEOPLASMS (210-229)	74	41	33	114	61	53	169	91	78
IN SITU, UNCERTAIN BEHAVIOR & UNSPECIFIED NATURE NEOPLASMS (230-239)	91	37	54	136	61	75	223	113	110
DIABETES MELLITUS (250)	1,171	706	465	1,830	1,093	737	2,804	1,646	1,158
NUTRITIONAL DEFICIENCIES (260-269)	14	0	14	25	1	24	41	7	34
ANEMIAS (280-285)	207	134	73	249	154	95	301	178	123
ALZHEIMER'S DEMENTIA (290.1)	3	0	3	11	0	11	34	0	34
ALCOHOLIC PSYCHOSES & ALCOHOLISM (291, 303)	1,023	830	193	1,420	1,145	275	1,878	1,502	376
DRUG DEPENDENCE (304)	377	304	73	439	356	83	504	411	93
MENINGITIS (302-322)	73	42	31	93	52	41	121	66	55
ALZHEIMER'S DISEASE (331)	7	7	0	30	22	8	116	62	54
PARKINSON'S DISEASE (332)	27	13	14	59	28	31	119	55	64
EPILEPSY (345)	529	404	125	621	468	153	727	544	183
MAJOR CARDIOVASCULAR DISEASES (390-448)	13,742	9,755	3,987	23,108	16,324	6,784	37,992	26,311	11,681
DISEASES OF THE HEART (390-398, 402, 404-429)	11,489	8,514	2,975	19,200	14,098	5,102	31,085	22,357	8,728
RHEUMATIC FEVER & CHRONIC RHEUMATIC HEART DISEASE (390-398)	273	38	235	393	90	303	575	174	401
HYPERTENSIVE HEART DISEASE WITH OR WITHOUT RENAL DISEASE (402,404)	195	114	81	342	195	147	571	313	258
ISCHEMIC HEART DISEASE (410-414)	7,997	6,408	1,589	13,876	10,835	3,041	22,937	17,356	5,581
MYOCARDIAL INFARCTION (410)	2,714	2,150	564	5,061	3,868	1,193	8,778	6,452	2,326
OTHER ACUTE & SUBACUTE (411)	38	22	16	63	32	31	89	42	47
CHRONIC ISCHEMIC HEART DISEASE (412-414)	5,245	4,236	1,009	8,752	6,935	1,817	14,070	10,862	3,208

TABLE 4-23. YEARS OF POTENTIAL LIFE LOST BY CAUSE, OREGON RESIDENTS, 1989-Continued

SELECTED CAUSES OF DEATH	BEFORE AGE 65			BEFORE AGE 70			BEFORE AGE 75		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
ALL OTHER FORMS (415-429)	3,024	1,954	1,070	4,589	2,978	1,611	7,002	4,514	2,488
HYPERTENSION (401, 403)	173	142	31	259	211	48	421	316	105
CEREBROVASCULAR DISEASE (430-438)	1,533	886	647	2,652	1,536	1,116	4,622	2,615	2,007
SUBARACHNOID HEMORRHAGE (430)	573	252	321	779	343	436	1,038	451	587
INTRACEREBRAL & INTRACRANIAL HEMORRHAGES (431-432)	545	328	217	857	481	376	1,320	698	622
CEREBRAL THROMBOSIS & EMBOLISM (434)	149	104	45	280	194	86	542	340	202
ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE (436)	196	140	56	593	405	188	1,385	883	502
GENERALIZED ISCHEMIC CEREBROVASCULAR DISEASE (437)	9	9	0	26	21	5	93	59	34
ARTERIOSCLEROSIS (440)	88	48	40	194	120	74	427	263	164
OTHER DISEASES OF ARTERIES, ARTERIOLES AND CAPILLARIES (441-448)	459	165	294	803	359	444	1,437	760	677
VENOUS THROMBOSIS & EMBOLISM (451-453)	10	8	2	36	24	12	92	56	36
PNEUMONIA (480-486)	961	482	479	1,318	687	631	1,933	1,051	882
INFLUENZA (487)	110	43	67	136	51	85	182	65	117
BRONCHITIS, EMPHYSEMA, ASTHMA AND COPD (490-496)	1,467	808	659	2,922	1,628	1,294	5,480	3,065	2,415
GASTRIC, DUODENAL, OR PEPTIC ULCER (531-533)	48	25	23	85	45	40	144	81	63
HERNIA & INTESTINAL OBSTRUCTION (550-553, 560)	75	74	1	103	97	6	150	127	23
CIRRHOSIS OF THE LIVER (571)	2,002	1,479	523	2,859	2,083	776	3,884	2,809	1,075
ALCOHOLIC CIRRHOSIS (571.0-571.3)	1,916	1,442	474	2,683	2,007	676	3,559	2,668	891
DISEASES OF THE PANCREAS (577)	51	47	4	92	78	14	149	115	34
NEPHRITIS & NEPHROSIS (580-589)	328	216	112	453	296	157	643	409	234
INFECTIONS OF THE KIDNEY (590)	70	0	70	87	0	87	111	1	110
DISEASES OF MALE GENITAL ORGANS (600-608)	0	0	-	0	0	-	0	0	-
DISEASES OF THE UTERUS AND OTHER FEMALE GENITAL ORGANS (614-629)	26	-	26	31	-	31	36	-	36
COMPLICATIONS OF PREGNANCY, CHILDBIRTH & THE PUERPERIUM (630-676)	141	-	141	161	-	161	181	-	181
CONGENITAL ANOMALIES (740-759)	6,149	4,120	2,030	6,693	4,469	2,225	6,656	4,364	2,292
CERTAIN CAUSES IN EARLY INFANCY (760-779)	10,990	6,401	4,589	11,840	6,896	4,944	11,024	6,525	4,499
SENILITY (797)	0	0	0	0	0	0	0	0	0
SUDDEN INFANT DEATH SYNDROME (798.0)	6,000	3,355	2,645	6,465	3,615	2,850	6,691	3,749	2,942
ACCIDENTS (800-949)	26,634	19,740	6,894	30,821	22,856	7,965	35,244	26,113	9,131
MOTOR VEHICLE ACCIDENTS (810-825)	17,327	11,980	5,347	19,878	13,728	6,150	22,566	15,560	7,006
SUICIDES (950-959)	9,714	7,701	2,013	11,542	9,113	2,429	13,523	10,642	2,881
HOMICIDES (960-978)	4,198	2,606	1,592	4,874	3,048	1,826	5,577	3,503	2,074
INJURIES UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED (980-989)	1,606	1,118	489	1,869	1,298	572	2,121	1,468	653

TABLE 4-24. YEARS OF POTENTIAL LIFE LOST BY YEAR AND CAUSE BEFORE AGE 70, OREGON RESIDENTS, 1980-1989

Year	Total	Heart Disease	Cancer	Cerebro-vascular Disease	Respir-atory Disease	Unintentional Injury	Influenza and Pneumonia	Arterio-sclerosis
1980	177,744	24,979	30,186	3,671	2,694	40,563	1,139	206
1981	169,568	23,560	30,272	3,373	2,567	39,228	1,156	442
1982	158,450	23,058	29,228	3,155	2,524	33,204	1,337	488
1983	156,481	22,927	28,938	3,250	2,712	35,094	1,118	274
1984	159,495	22,301	31,543	3,344	2,548	35,585	1,541	294
1985	155,495	21,580	29,494	3,278	2,698	34,778	1,109	253
1986	156,352	20,737	28,440	2,725	2,824	34,473	1,352	358
1987	158,289	21,131	29,831	2,908	2,515	34,581	1,065	304
1988	156,664	20,367	29,864	2,860	2,505	34,114	1,631	378
1989	153,275	19,143	28,551	2,652	2,922	30,820	1,454	194

Year	Suicide	Diabetes	Alcoholism	Homicide*	Congenital Anomalies	SIDS	Perinatal Conditions	Undeter-mined External Cause	AIDS
1980	10,980	1,791	4,114	5,306	9,920	9,176	15,236	1,833	-
1981	10,657	1,416	4,615	4,331	8,892	8,134	14,969	2,250	-
1982	9,978	1,538	3,087	5,096	9,962	7,162	11,669	1,886	-
1983	10,443	1,843	3,951	4,219	8,721	6,744	10,349	1,807	73
1984	10,177	1,426	3,781	4,703	8,416	7,577	9,467	2,012	233
1985	10,462	1,838	3,439	4,082	8,743	7,443	9,438	1,959	769
1986	11,238	1,569	3,746	6,186	7,512	8,411	8,305	2,229	2,290
1987	9,741	1,863	3,544	5,821	7,905	7,996	11,188	2,053	2,514
1988	11,603	2,321	3,544	5,016	6,994	6,882	8,949	1,336	3,630
1989	11,542	1,830	4,176	4,874	6,694	6,465	11,840	1,869	3,963

* Includes legal intervention

TABLE 4-25. MEDIAN AGE AT DEATH BY YEAR AND CAUSE, OREGON RESIDENTS, 1980-1989

Year	All Causes	Heart Disease	Cancer	Cerebro-vascular Disease	Respir-atory Disease	Unintentional Injury	Influenza and Pneumonia	Arterio-sclerosis
1980	73	76	69	81	72	34	84	86
1981	73	76	69	81	73	34	84	84
1982	73	77	70	82	73	33	85	84
1983	74	77	70	81	73	35	84	86
1984	74	77	70	81	74	34	84	85
1985	75	78	71	81	74	36	85	86
1986	75	78	71	82	74	38	84	86
1987	75	78	71	82	74	37	84	85
1988	75	78	71	82	75	37	84	86
1989	76	79	72	81	75	41	85	86

Year	Alzheimer's Disease and Dementia	Suicide	Diabetes	Alcoholism	Homicide and Legal Inter-vention	Undeter-mined External Cause	AIDS	Parkinson's Disease
1980	74	37	73	60	29	35	-	79
1981	75	41	74	59	28	31	-	80
1982	79	42	71	62	30	38	-	79
1983	80	43	73	60	32	34	34	79
1984	81	45	75	62	32	33	31	79
1985	82	43	73	62	35	35	34	79
1986	81	42	74	61	33	32	35	81
1987	83	43	72	60	32	30	35	79
1988	83	42	74	62	32	35	35	82
1989	83	42	74	61	35	34	39	81

TABLE 4-26. DEATHS BY AGE, RACE AND ETHNICITY, OREGON RESIDENTS, 1989

RACE AND ETHNICITY	TOTAL	AGE AT DEATH								
		< 1	1-4	5-14	15-19	20-24	25-29	30-34	35-39	40-44
TOTAL	24,679	364	67	98	173	193	236	307	367	438
HISPANIC	212	26	3	1	8	16	8	15	12	8
NON-HISPANIC#	24,467	338	64	97	165	177	228	292	355	430
WHITE	23,952	326	63	89	170	179	219	280	347	417
HISPANIC	198	25	2	1	8	15	6	14	12	7
NON-HISPANIC#	23,754	301	61	88	162	164	213	266	335	410
AFRICAN AMERICAN	352	22	1	4	1	8	5	10	9	11
HISPANIC	2	-	-	-	-	-	-	-	-	1
NON-HISPANIC#	350	22	1	4	1	8	5	10	9	10
INDIAN	166	8	1	-	2	3	7	9	4	7
HISPANIC	5	1	1	-	-	-	1	1	-	-
NON-HISPANIC#	161	7	-	-	2	3	6	8	4	7
CHINESE	54	2	-	1	-	-	-	3	2	1
NON-HISPANIC#	54	2	-	1	-	-	-	3	2	1
JAPANESE	45	-	-	1	-	-	1	-	-	1
NON-HISPANIC#	45	-	-	1	-	-	1	-	-	1
OTHER ASIAN & PAC. IS.	63	6	1	2	-	2	3	2	3	1
HISPANIC	1	-	-	-	-	-	-	-	-	-
NON-HISPANIC#	62	6	1	2	-	2	3	2	3	1
OTHER & UNKNOWN*	47	-	1	1	-	1	1	3	2	-
HISPANIC	6	-	-	-	-	1	1	-	-	-
NON-HISPANIC#	41	-	1	1	-	-	-	3	2	-

	AGE AT DEATH									
	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90+
TOTAL	465	585	972	1,597	2,488	3,088	3,648	3,636	3,024	2,933
HISPANIC	11	4	13	13	15	20	14	8	7	10
NON-HISPANIC#	454	581	959	1,584	2,473	3,068	3,634	3,628	3,017	2,923
WHITE	432	548	926	1,535	2,414	3,008	3,557	3,571	2,974	2,897
HISPANIC	10	3	12	13	14	20	13	8	7	8
NON-HISPANIC#	422	545	914	1,522	2,400	2,988	3,544	3,563	2,967	2,889
AFRICAN AMERICAN	16	17	22	33	39	44	42	27	27	14
HISPANIC	-	-	1	-	-	-	-	-	-	-
NON-HISPANIC#	16	17	21	33	39	44	42	27	27	14
INDIAN	9	10	8	14	18	17	20	21	4	4
HISPANIC	-	-	-	-	-	-	1	-	-	-
NON-HISPANIC#	9	10	8	14	18	17	19	21	4	4
CHINESE	-	1	10	5	2	7	10	3	4	3
NON-HISPANIC#	-	1	10	5	2	7	10	3	4	3
JAPANESE	-	2	4	2	3	5	4	3	8	11
NON-HISPANIC#	-	2	4	2	3	5	4	3	8	11
OTHER ASIAN & PAC. IS.	7	5	1	6	7	5	6	4	1	1
HISPANIC	1	-	-	-	-	-	-	-	-	-
NON-HISPANIC#	6	5	1	6	7	5	6	4	1	1
OTHER & UNKNOWN*	1	2	1	2	5	2	9	7	6	3
HISPANIC	-	1	-	-	1	-	-	-	-	2
NON-HISPANIC#	1	1	1	2	4	2	9	7	6	1

NOTE: INCLUDES A SMALL NUMBER WITH UNKNOWN ETHNICITY.
* NOTE: OTHER NON-WHITE INCLUDES GROUPS WHERE FEWER THAN 20 DEATHS WERE RECORDED. (E.G. HAWAIIAN, FILIPINO).

Table 4-27. Death rates for selected leading causes of mortality, United States, 1979-1989

Year	Total	Heart disease	Cancer	Cerebrovascular disease	COPD[1]	Unintentional injuries	Influenza & Pneumonia	Suicide	Diabetes
1979	852.2	326.5	179.6	75.5	22.2	46.9	20.1	12.1	14.8
1980	878.3	336.0	183.9	75.1	24.7	46.7	24.1	11.9	15.4
1981	862.4	328.7	184.0	71.3	25.7	43.9	23.4	12.0	15.1
1982	852.0	326.0	187.2	68.0	25.8	40.6	21.1	12.2	14.9
1983	862.8	329.2	189.3	66.5	28.3	39.5	23.9	12.1	15.5
1984	862.3	323.5	191.8	65.3	29.2	39.3	24.9	12.4	15.1
1985	873.9	323.0	193.3	64.1	31.3	39.1	28.3	12.3	15.5
1986	873.2	317.5	194.7	62.1	31.8	39.5	29.0	12.8	15.4
1987	874.2	312.4	195.9	61.6	32.2	39.0	28.4	12.7	15.8
1988[4]	883.0	312.2	198.6	61.1	33.3	39.7	31.5	12.3	16.1
1989[4]	868.1	296.3	200.3	59.4	34.0	38.2	30.3	12.6	18.8

Year	Arteriosclerosis	Alzheimer's disease[2]	Perinatal conditions	Homicide[3]	Hypertension	AIDS	Parkinson's disease	Congenital anomalies	SIDS
1979	12.8	0.5	10.4	10.0	3.2	—	1.6	6.0	2.4
1980	13.0	0.7	10.1	10.7	3.5	—	1.7	6.2	2.4
1981	12.2	0.9	9.4	10.3	3.3	—	1.7	5.9	2.3
1982	11.6	1.2	9.0	9.6	3.3	—	1.8	5.9	2.3
1983	11.3	2.1	8.3	8.6	3.3	—	2.0	5.6	2.3
1984	10.3	2.9	8.0	8.4	3.3	—	2.1	5.5	2.2
1985	10.0	3.9	8.1	8.3	3.2	—	2.2	5.4	2.2
1986	9.4	4.5	7.6	9.0	3.3	—	2.3	5.2	2.2
1987	9.2	5.4	7.5	8.7	3.3	5.5	2.6	5.1	2.1
1988[4]	9.6	—	7.5	8.9	3.3	6.6	—	5.2	—
1989[4]	7.7	—	7.5	9.3	3.4	—	—	5.1	—

All rates per 100,000 population.

1. Chronic obstructive pulmonary disease consists principally of bronchitis, emphysema, asthma, and chronic airways obstruction.
2. Including Alzheimer's dementia.
3. Including legal intervention.
4. Provisional data.

Marriage and Divorce

CURRENT TRENDS. During the last quarter century Oregon's annual marriage rate increased steadily from the early 1960s to the early 1970s; after reaching a plateau, a slight decrease occurred in 1975 and 1976. From 1977 to the present the marriage rate has fluctuated between 8.3 and 9.1 per 1,000 residents. In 1989, the marriage rate (8.6) was the same as it was in 1981. Last year, 23,908 couples were married in Oregon, a 2 percent increase from the previous year but a 1 percent decline since the 1982 record high of 24,186. It remained one-fifth below the rate recorded in 1946, a post-war high of 10.9 (Figure 5-1).

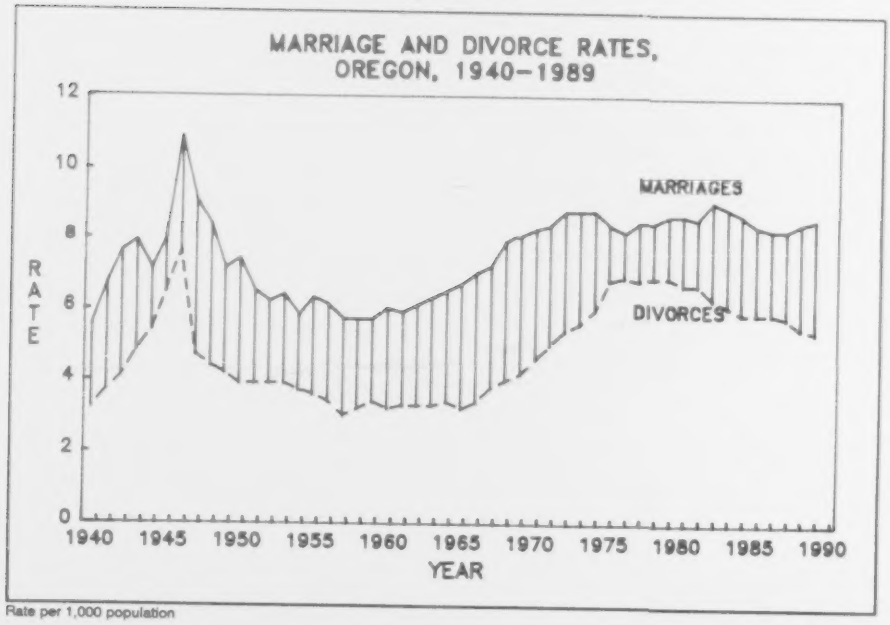
Marriages increase, divorces decrease

The number of divorces fell slightly in 1989, to 15,083 compared to 15,187 in 1988. Except for two years, divorces have declined annually since the 1980 high of 17,762. The divorce *rate* declined little in 1989 (5.4 vs. 5.5 per 1,000 in 1988); yet it is about one-fifth below that of a decade ago.

Oregon's marriage rates are consistently lower than the nation's, while our divorce rates are consistently higher. In 1989, the U.S. marriage rate was 9.7 compared to 8.6 for Oregon. The U.S. divorce rate was 4.7 compared to 5.4 in Oregon. Figure 1-3 illustrates the ratio of divorces to marriages for Oregon and the U.S. since 1975. It reveals a narrowing of the difference within the past two years. Oregon's higher ratio could be affected by Oregon residents marrying outside the state.

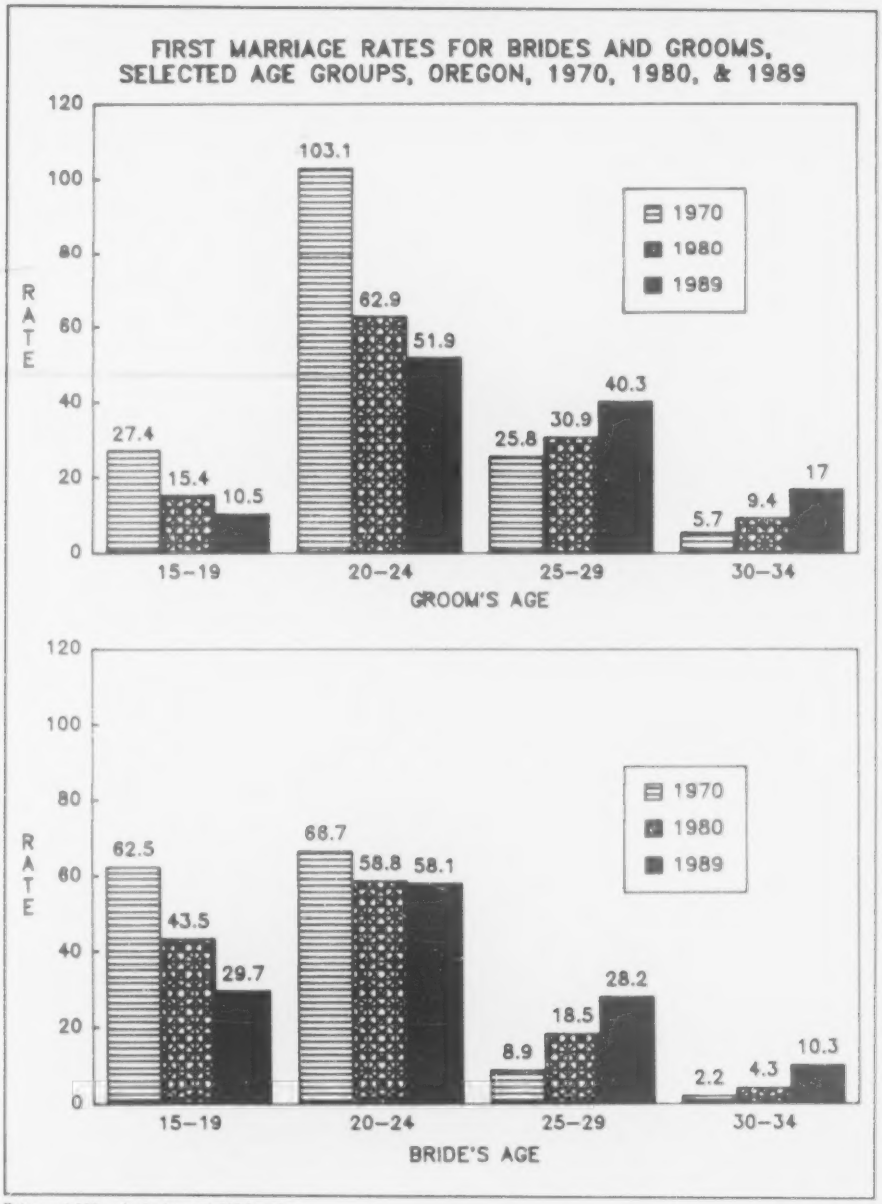
Nearly one-half (46.8 percent) of all marriages occurring in Oregon are concentrated in the months of June through September. The most common month of marriage in Oregon was August. In the U.S., June marriages were most common. Both the United States' and Oregon's divorce rates vary little from month to month.

Figure 5-1.



Rate per 1,000 population

Figure 5-2.



Rate per 1,000 males/ rate per 1,000 females

COMPARISON WITH U.S. RATES REQUIRES CAUTION. In general, *rates* are more useful in understanding changing trends in behavior than are the absolute numbers of events. This is especially true if *rates reflect* all *events (e.g. marriage or divorces) which involve state residents*. However, states do not exchange marriage and divorce certificates as is done with those of birth and death; thus, these rates reflect only events which occur within the state. In effect, the marriage rate is lowered whenever residents go out of state to be married. Couples may choose to marry in the same location as their honeymoon, or, because Oregon has traditionally had stricter financial and medical requirements than neighboring states, many marriages among Oregon residents are counted in Washington, California, Idaho, or Nevada. As a result of these factors, reported marriage rates

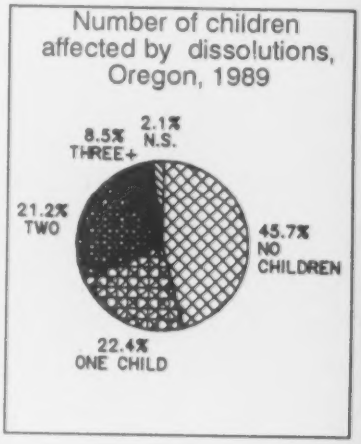
probably underestimate the actual frequency of marriage among Oregon residents. With respect to divorce, a different pattern seems to occur: the location for filing appears to be based on the costs and backlog of the local court system. This makes the study of rates over time and direct comparisons between counties less useful to the understanding of trends in behavior.

RATES BY AGE FOR FIRST MARRIAGES CHANGING. A second factor which complicates the interpretation of marriage rates is that the true denominator for the people "at risk of being married" (the number of unmarried people in the population) is available only in census years, and the total population can be a misleading substitute. Figure 5-2 refers to only first marriages of persons 15-34 years old and shows the changes which have occurred since 1970. Compared to 19 years ago, the rate of first marriages has declined for those under 25 years of age. This trend is especially strong among teenagers; the rate of first marriages among females declined by 52 percent and even more among males, 62 percent. In 1989, 59.5 percent of all marriages were first marriages for grooms. The figure was 57.9 percent for brides.

DURATION OF MARRIAGE BEFORE DIVORCE IS LONGER. In addition to people delaying marriage until an older age, marriages that ended in divorce are lasting longer. In 1980, 42.0 percent of divorces involved couples who had been married for less than five years. By 1989, only 35.1 percent of the divorced couples were so categorized.

EFFECTS OF DIVORCE ON CHILDREN. New figures, based on improved reporting procedures, reveal that more than one-half of all divorces which occur in the state involve marriages with minor dependents (Figure 5-3);[1] at least 14,031 children under the age of 18 years were affected by divorce during 1989 (Table 5-1). This number is about 10 percent greater than the annual number presumed in terms of data obtained in 1987 and 1988.

Figure 5-3.



1. In 1989, data were gathered in terms of a differently phrased question than in previous years. See Technical Notes section for an explanation of the change in reporting procedures.

TABLE 5-1 DISSOLUTION OF MARRIAGES AND ANNULMENTS BY NUMBER OF MINOR CHILDREN (UNDER 18 YEARS) AFFECTED, OREGON, 1989

NUMBER OF CHILDREN IN HOUSEHOLD	TOTAL	PERCENT
TOTAL	15,083	100.0
NO CHILDREN	6,899	45.7
1 CHILD	3,372	22.4
2 CHILDREN	3,198	21.2
3 CHILDREN	1,000	6.6
4 CHILDREN	228	1.5
5 CHILDREN	50	.3
6 CHILDREN	11	.1
7 CHILDREN	5	.0
8+ CHILDREN	-	-
UNKNOWN	320	2.1
TOTAL NUMBER OF REPORTED MINOR CHILDREN AFFECTED	14,031	

- QUANTITY IS ZERO

NOTE: DATA OBTAINED PRIOR TO 1989 INCLUDED CHILDREN OF THE CURRENT MARRIAGE ONLY. THUS, FOR PURPOSES OF TREND ANALYSIS THESE DATA ARE NOT DIRECTLY COMPARABLE TO PRIOR YEARS.

TABLE 5-2. MARRIAGES AND DISSOLUTIONS (INCLUDING ANNULMENTS) BY MONTH OF OCCURRENCE, OREGON, 1989

MONTH OF OCCURRENCE	MARRIAGES		DISSOLUTIONS AND ANNULMENTS	
	NUMBER	RATE 1/	NUMBER	RATE 1/
TOTAL	23,908	8.6	15,083	5.4
JANUARY	991	4.3	1,218	5.2
FEBRUARY	1,283	5.5	1,104	4.7
MARCH	1,526	6.6	1,310	5.6
APRIL	1,585	6.8	1,148	4.9
MAY	1,890	8.1	1,287	5.5
JUNE	2,628	11.3	1,282	5.5
JULY	2,857	12.3	1,224	5.3
AUGUST	2,964	12.7	1,439	6.2
SEPTEMBER	2,729	11.7	1,190	5.1
OCTOBER	1,649	7.1	1,255	5.4
NOVEMBER	1,567	6.7	1,468	6.3
DECEMBER	2,239	9.6	1,158	5.0

1/ RATES PER 1,000 POPULATION. MONTHLY RATES ARE ANNUAL ESTIMATES BASED ON ONE-TWELFTH OF THE ANNUAL POPULATION

TABLE 5-3. MARRIAGES BY AGE AND PREVIOUS MARITAL STATUS OF GROOM, OREGON, 1989

AGE OF GROOM	ALL MARRIAGES	FIRST MARRIAGE FOR GROOM	PREVIOUS MARITAL STATUS OF GROOM			
			TOTAL	DIVORCED	WIDOWED	UNKNOWN
Total.....	23,908	14,218	9,690	8,703	761	226
15-19.....	1,083	1,070	13	5	-	8
20-24.....	5,939	5,646	293	241	3	49
25-29.....	5,656	4,458	1,198	1,149	12	37
30-34.....	3,663	1,885	1,778	1,724	16	38
35-39.....	2,724	783	1,941	1,878	36	27
40-44.....	1,819	258	1,561	1,510	27	24
45-49.....	1,071	55	1,016	957	47	12
50-54.....	648	22	626	553	64	9
55-59.....	423	15	408	319	83	6
60-64.....	264	10	254	171	79	4
65-69.....	212	6	206	91	113	2
70-74.....	176	-	176	61	112	3
75+.....	218	2	216	40	169	7
UNK.....	12	8	4	4	-	-

- QUANTITY IS ZERO

TABLE 5-4. MARRIAGES BY AGE AND PREVIOUS MARITAL STATUS OF BRIDE, OREGON, 1989

AGE OF BRIDE	ALL MARRIAGES	FIRST MARRIAGE FOR BRIDE	PREVIOUS MARITAL STATUS OF BRIDE			
			TOTAL	DIVORCED	WIDOWED	UNKNOWN
Total.....	23,908	13,835	10,073	8,991	840	242
15-19.....	2,946	2,892	54	30	-	24
20-24.....	6,744	6,042	702	647	4	51
25-29.....	4,942	3,113	1,829	1,748	33	48
30-34.....	3,367	1,181	2,186	2,098	47	41
35-39.....	2,426	458	1,968	1,873	65	30
40-44.....	1,504	110	1,394	1,307	73	14
45-49.....	780	21	759	679	71	9
50-54.....	408	8	400	315	77	8
55-59.....	196	3	193	129	63	1
60-64.....	199	2	197	85	107	5
65-69.....	164	2	162	45	114	3
70-74.....	107	1	106	24	80	2
75+.....	120	1	119	8	106	5
UNK.....	5	1	4	3	-	1

- QUANTITY IS ZERO

TABLE 5-5. AGE OF BRIDE AND GROOM FOR ALL MARRIAGES AND FIRST MARRIAGES, OREGON, 1989

ALL MARRIAGES

AGE OF GROOM	Total	AGE OF BRIDE													
		15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	UNK.
TOTAL.	23,908	2,946	6,744	4,942	3,367	2,426	1,504	780	408	196	199	164	107	120	5
15-19.	1,083	816	239	18	8	2	-	-	-	-	-	-	-	-	-
20-24.	5,939	1,681	3,458	589	141	56	11	2	-	-	-	-	-	-	1
25-29.	5,656	346	2,208	2,143	668	215	56	15	2	1	-	-	-	1	1
30-34.	3,663	70	577	1,276	1,099	467	139	21	11	2	-	-	-	-	1
35-39.	2,724	17	176	612	848	742	252	62	8	2	3	-	1	-	1
40-44.	1,819	4	59	218	388	537	465	116	25	5	-	-	1	-	1
45-49.	1,071	4	13	61	138	242	299	236	68	7	3	-	-	-	-
50-54.	648	2	5	15	43	104	168	154	115	21	17	1	2	1	-
55-59.	423	2	3	6	16	44	71	92	102	53	23	10	-	1	-
60-64.	264	1	2	1	12	10	29	56	39	41	51	16	3	3	-
65-69.	212	-	-	1	2	2	10	14	24	35	54	50	13	7	-
70-74.	176	-	-	1	2	-	2	7	9	16	30	52	39	18	-
75+...	218	-	-	-	1	3	2	5	5	12	18	35	48	89	-
UNK...	12	3	4	1	1	2	-	-	-	1	-	-	-	-	-

FIRST MARRIAGE FOR BOTH BRIDE AND GROOM

AGE OF GROOM	Total	AGE OF BRIDE													
		15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	UNK.
TOTAL.	11,222	2,718	5,235	2,274	721	219	43	8	2	-	-	1	-	-	1
15-19.	1,046	802	227	13	3	1	-	-	-	-	-	-	-	-	-
20-24.	5,083	1,602	3,101	337	32	7	3	-	-	-	-	-	-	-	1
25-29.	3,418	273	1,623	1,262	218	36	5	1	-	-	-	-	-	-	-
30-34.	1,122	33	242	499	293	50	4	-	1	-	-	-	-	-	-
35-39.	394	4	31	133	134	74	15	3	-	-	-	-	-	-	-
40-44.	119	1	6	24	33	44	10	1	-	-	-	-	-	-	-
45-49.	21	-	1	5	4	6	4	1	-	-	-	-	-	-	-
50-54.	4	-	-	-	2	1	-	1	-	-	-	-	-	-	-
55-59.	5	-	-	1	2	-	1	-	1	-	-	-	-	-	-
60-64.	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-
65-69.	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-
70-74.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75+...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UNK...	7	3	4	-	-	-	-	-	-	-	-	-	-	-	-

- QUANTITY IS ZERO

TABLE 5-6. MARRIAGES BY COUNTY OF OCCURRENCE AND AGE OF BRIDE, OREGON, 1989

COUNTY OF OCCURRENCE	ALL AGES	AGE OF BRIDE													
		15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	UNK.
TOTAL	23,908	2,946	6,744	4,942	3,367	2,426	1,504	780	408	196	199	164	107	120	5
BAKER	146	27	45	26	23	8	6	5	1	1	3	1	-	-	-
BENTON	509	36	176	105	76	51	33	12	8	5	-	1	4	2	-
CLACKAMAS	2,216	263	660	472	296	214	145	69	38	13	22	12	8	4	-
CLATSOP	372	44	112	60	54	42	15	18	9	4	3	4	4	3	-
COLUMBIA	274	53	91	42	31	23	12	10	5	1	2	2	1	1	-
COOS	546	92	151	88	67	56	29	23	12	4	7	4	4	9	-
CROOK	124	30	33	16	14	14	7	4	2	2	-	-	1	1	-
CURRY	185	24	39	33	27	18	12	10	5	4	5	3	1	3	1
DESCHUTES	746	93	194	151	103	94	45	23	17	6	8	4	5	1	2
DOUGLAS	833	158	224	125	97	81	61	29	24	9	8	8	7	2	-
GILLIAM	15	2	-	6	2	-	1	3	1	-	-	-	-	-	-
GRANT	57	9	17	12	8	5	-	1	1	2	1	1	-	-	-
HARNEY	48	6	19	10	7	2	2	2	-	-	-	-	-	-	-
HOOD RIVER	213	23	58	41	35	23	16	9	3	4	-	-	-	1	-
JACKSON	1,370	219	337	243	189	169	102	41	25	12	8	10	6	9	-
JEFFERSON	112	14	27	25	17	7	8	7	2	2	-	1	1	1	-
JOSEPHINE	482	73	114	77	65	59	32	19	19	5	4	7	4	4	-
KLAMATH	432	75	137	68	59	28	35	8	8	3	2	4	2	3	-
LAKE	50	4	13	10	11	6	2	3	-	-	-	1	-	-	-
LANE	2,461	298	674	493	358	253	176	93	37	22	20	13	11	12	1
LINCOLN	501	48	89	105	86	64	35	42	9	3	6	9	1	4	-
LINN	850	156	281	153	75	75	43	23	13	5	11	9	3	3	-
MALHEUR	155	29	54	31	14	9	7	3	4	-	1	1	1	2	-
MARION	1,961	240	626	403	242	196	104	59	22	13	17	12	13	14	-
MORROW	46	12	11	10	9	1	1	2	-	-	-	-	-	-	-
MULTNOMAH	5,179	373	1,350	1,322	869	578	318	145	85	46	36	29	14	14	-
POLK	328	51	90	58	41	26	33	8	7	2	3	3	1	5	-
SHERMAN	4	1	1	2	-	-	-	-	-	-	-	-	-	-	-
TILLAMOOK	176	17	45	31	21	26	10	9	4	1	3	4	3	2	-
UMATILLA	459	94	150	87	41	25	31	13	2	2	7	3	2	2	-
UNION	198	35	59	40	25	11	12	5	3	2	2	2	1	1	-
WALLOWA	50	11	14	9	10	2	1	1	1	-	-	1	-	-	-
WASCO	195	31	48	39	29	17	14	3	7	5	-	1	1	-	-
WASHINGTON	2,078	205	635	451	302	204	131	61	27	14	13	13	7	14	1
WHEELER	9	-	2	2	3	1	1	-	-	-	-	-	-	-	-
YAMHILL	528	100	168	96	61	38	24	17	7	4	7	2	1	3	-

- QUANTITY IS ZERO

TABLE 5-7. MARRIAGES BY COUNTY OF OCCURRENCE AND AGE OF GROOM, OREGON, 1989

COUNTY OF OCCURRENCE	ALL AGES	AGE OF GROOM													
		15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	UNK.
TOTAL	23,908	1,083	5,939	5,656	3,663	2,724	1,819	1,071	648	423	264	212	176	218	12
BAKER	146	15	39	27	23	14	9	5	6	1	5	-	1	1	-
BENTON	509	11	138	134	80	58	30	22	9	12	5	2	4	4	-
CLACKAMAS	2,216	86	581	537	308	263	172	95	66	42	20	14	19	11	2
CLATSOP	372	13	85	93	46	51	23	25	8	6	4	8	5	4	1
COLUMBIA	274	18	87	62	34	28	18	8	6	5	1	1	-	5	1
COOS	546	38	140	124	58	63	39	23	16	12	9	7	6	10	1
CROOK	124	12	35	28	12	16	8	2	3	-	4	-	-	4	-
CURRY	185	4	40	35	21	26	17	11	8	4	4	4	6	4	1
DESCHUTES	746	37	182	159	121	94	63	31	15	17	9	8	5	5	-
DOUGLAS	833	50	230	176	108	80	64	41	28	17	8	14	8	9	-
GILLIAM	15	-	1	3	4	2	1	1	1	1	1	-	-	-	-
GRANT	57	5	19	6	8	8	3	2	1	1	1	-	2	1	-
HARNEY	48	5	10	11	10	6	3	1	1	1	-	-	-	-	-
HOOD RIVER	213	5	43	47	43	30	16	12	8	4	4	1	-	-	-
JACKSON	1,370	85	343	269	202	155	115	76	43	28	13	12	14	15	-
JEFFERSON	112	4	27	20	16	16	13	4	7	1	1	-	1	2	-
JOSEPHINE	482	28	117	81	71	49	40	44	18	7	7	7	7	6	-
KLAMATH	432	34	123	91	59	41	29	19	13	11	3	1	4	4	-
LAKE	50	2	9	10	6	12	3	5	-	1	1	1	-	-	-
LANE	2,461	122	588	579	382	266	202	117	80	39	31	25	13	17	-
LINCOLN	501	11	89	93	83	72	46	46	24	12	10	3	5	7	-
LINN	850	64	279	183	106	77	49	30	20	8	10	11	6	7	-
MALHEUR	155	10	60	34	16	13	10	2	2	3	2	-	1	2	-
MARION	1,961	109	529	493	273	183	150	78	47	30	16	17	14	22	-
MORROW	46	5	12	10	7	5	4	1	1	1	-	-	-	-	-
MULTNOMAH	5,179	135	1,049	1,376	932	667	431	208	121	98	54	41	33	31	3
POLK	328	15	92	69	44	33	27	19	10	3	4	2	3	7	-
SHERMAN	4	-	-	1	1	1	-	-	-	1	-	-	-	-	-
TILLAMOOK	176	5	28	45	25	27	13	8	6	5	2	6	2	4	-
UMATILLA	459	30	159	105	54	42	24	16	9	6	2	3	2	7	-
UNION	198	10	58	43	33	24	11	4	3	4	2	2	2	1	1
WALLOWA	50	3	17	12	2	10	4	-	-	2	-	-	-	-	-
WASCO	195	9	45	54	20	27	12	12	3	8	2	2	-	1	-
WASHINGTON	2,078	70	525	525	365	222	130	92	52	26	24	12	10	23	2
WHEELER	9	-	1	3	1	-	3	-	1	-	-	-	-	-	-
YAMHILL	528	33	159	118	89	43	37	11	12	6	5	8	3	4	-

- QUANTITY IS ZERO

MARRIAGE & DIVORCE

TABLE 5-8 DISSOLUTION OF MARRIAGES AND ANNULMENTS BY AGE OF HUSBAND AND WIFE AND DURATION OF MARRIAGE, OREGON, 1989

AGE AT DIVORCE	TOTAL	DURATION OF MARRIAGE					
		UNDER 1 YEAR	1 - 4 YEARS	5 - 9 YEARS	10 - 19 YEARS	20 + YEARS	NOT STATED
TOTAL FOR HUSBAND....	15,083	480	4,778	4,331	3,740	1,638	116
15-19.....	34	9	25	-	-	-	-
20-24.....	971	66	813	85	-	-	7
25-29.....	2,486	64	1,290	1,060	55	-	17
30-34.....	2,847	62	864	1,205	693	1	22
35-39.....	2,784	63	608	810	1,253	34	16
40-44.....	2,308	52	437	508	909	382	20
45-49.....	1,408	48	246	258	372	474	10
50-54.....	831	24	183	145	171	301	7
55-59.....	497	21	85	84	109	196	2
60-64.....	309	20	56	48	74	108	3
65-69.....	195	10	45	26	33	78	3
70-74.....	112	21	26	21	16	27	1
75+.....	138	17	41	31	22	25	2
N.S.	163	3	59	50	33	12	6
TOTAL FOR WIFE.....	15,083	480	4,778	4,331	3,740	1,638	116
15-19.....	164	37	125	-	-	-	2
20-24.....	1,721	71	1,327	310	2	-	11
25-29.....	3,011	72	1,179	1,500	241	1	18
30-34.....	2,898	69	725	1,061	1,019	1	23
35-39.....	2,659	48	520	645	1,310	115	21
40-44.....	1,983	58	339	371	664	539	12
45-49.....	1,030	33	191	180	193	426	7
50-54.....	526	25	97	79	100	224	1
55-59.....	265	15	42	33	56	116	3
60-64.....	220	12	44	29	38	96	1
65-69.....	116	9	16	12	26	52	1
70-74.....	50	6	5	7	12	19	1
75+.....	136	10	49	29	20	22	6
N.S.	304	15	119	75	59	27	9

- QUANTITY IS ZERO

TABLE 5-9 DISSOLUTION OF MARRIAGES AND ANNULMENTS BY AGE OF HUSBAND AND WIFE AND ORDER OF MARRIAGE, OREGON, 1989

AGE AT DIVORCE	TOTAL	ORDER OF MARRIAGE				
		FIRST	SECOND	THIRD	FOUR+	N.S.
TOTAL FOR HUSBAND..	15,083	8,585	3,315	1,073	431	1,679
15-19.....	34	32	-	-	-	2
20-24.....	971	854	21	3	-	93
25-29.....	2,486	2,038	188	9	1	250
30-34.....	2,847	1,971	513	64	15	284
35-39.....	2,784	1,512	746	195	36	295
40-44.....	2,308	1,009	708	252	82	257
45-49.....	1,408	532	443	165	93	175
50-54.....	831	266	249	138	70	108
55-59.....	497	145	161	80	44	67
60-64.....	309	68	94	69	42	36
65-69.....	195	43	68	39	20	25
70-74.....	112	13	44	26	15	14
75+.....	138	34	50	22	10	22
UNK.....	163	68	30	11	3	51
TOTAL FOR WIFE.....	15,083	8,372	3,534	1,184	453	1,540
15-19.....	164	143	3	-	-	18
20-24.....	1,721	1,462	88	4	-	167
25-29.....	3,011	2,204	461	49	6	291
30-34.....	2,898	1,655	786	161	29	267
35-39.....	2,659	1,225	803	279	90	262
40-44.....	1,983	801	626	254	101	201
45-49.....	1,030	398	278	167	85	102
50-54.....	526	172	152	92	54	56
55-59.....	265	76	86	49	25	29
60-64.....	220	48	77	49	22	24
65-69.....	116	24	42	24	12	14
70-74.....	50	8	25	7	4	6
75+.....	136	43	41	23	7	22
UNK.....	304	113	66	26	18	81

- QUANTITY IS ZERO

TABLE 5-10 DISSOLUTION OF MARRIAGES BY COUNTY OF OCCURRENCE AND AGE OF WIFE, OREGON, 1989

COUNTY OF OCCURRENCE	TOTAL ALL AGES	AGE OF WIFE													
		15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	UNK.
TOTAL	15,083	164	1,721	3,011	2,898	2,659	1,983	1,030	526	265	220	116	50	136	304
BAKER	83	2	15	10	15	15	12	2	1	2	1	-	-	3	5
BENTON	310	1	35	69	56	52	52	21	7	9	2	2	1	-	3
CLACKAMAS	1,099	9	110	189	192	213	174	96	43	18	20	6	-	10	19
CLATSOP	206	3	24	37	45	37	33	11	1	6	2	1	1	1	4
COLUMBIA	777	15	83	162	140	141	95	57	29	9	9	7	1	10	19
COOS	363	5	53	69	74	58	41	20	19	5	6	3	1	3	6
CROOK	84	5	14	17	17	12	9	8	1	-	1	-	-	-	-
CURRY	106	1	22	13	14	15	11	12	7	3	5	-	1	1	1
DESCHUTES	325	3	35	68	68	58	41	13	7	11	2	1	3	6	9
DOUGLAS	478	8	66	99	90	83	47	28	10	10	11	9	3	3	11
GILLIAM	184	4	29	38	33	24	19	17	11	3	3	-	1	2	-
GRANT	65	-	7	14	17	7	9	5	2	1	1	1	-	-	1
HARNEY	45	-	8	4	10	5	3	3	4	1	2	-	1	2	2
HOOD RIVER	175	1	23	43	30	32	22	8	9	2	3	-	-	-	2
JACKSON	991	12	130	186	172	174	132	68	40	17	16	8	6	8	22
JEFFERSON	46	2	8	12	7	7	5	3	-	-	-	-	-	1	1
JOSEPHINE	374	5	48	67	55	70	51	32	10	12	6	4	2	6	6
KLAMATH	359	15	53	71	65	65	34	24	7	5	5	3	-	5	7
LAKE	56	2	16	12	8	5	6	2	1	1	-	1	-	1	1
LANE	1,381	12	153	261	264	256	174	113	55	32	17	15	5	6	18
LINCOLN	203	1	16	36	51	38	19	10	11	3	3	5	1	4	5
LINN	615	8	90	139	112	96	64	43	17	16	9	6	2	5	8
MALHEUR	108	1	15	22	10	20	18	9	6	2	2	-	-	1	2
MARION	558	2	49	132	115	95	68	28	20	9	11	5	2	4	18
MORROW	37	-	7	6	7	4	4	3	3	2	-	-	-	-	1
MULTNOMAH	2,857	11	261	587	621	532	407	186	83	39	40	10	5	21	54
POLK	632	5	76	132	127	107	76	36	22	8	8	7	2	9	17
SHERMAN	8	-	-	-	1	2	-	1	1	1	-	-	1	-	1
TILLAMOOK	268	2	35	64	41	41	37	13	10	7	4	3	3	2	6
UMATILLA	338	6	37	63	57	56	43	23	16	7	3	1	4	7	15
UNION	91	1	7	16	11	16	18	8	4	2	3	-	-	3	2
WALLOWA	52	2	6	10	15	7	6	-	3	-	-	1	-	1	1
WASCO	126	3	16	17	21	23	26	9	3	3	2	1	-	1	1
WASHINGTON	1,196	8	119	238	248	217	172	78	45	14	15	14	3	6	19
WHEELER	59	1	7	8	16	12	7	3	1	1	2	1	-	-	-
YAMHILL	428	8	48	100	73	64	48	37	17	4	6	1	1	4	17

- QUANTITY IS ZERO

TABLE 5-11 DISSOLUTION OF MARRIAGES BY COUNTY OF OCCURRENCE AND AGE OF HUSBAND, OREGON, 1989

COUNTY OF OCCURRENCE	TOTAL ALL AGES	AGE OF HUSBAND													
		15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	UNK.
TOTAL	15,083	34	971	2,486	2,847	2,784	2,308	1,408	831	497	309	195	112	138	163
BAKER	83	2	7	14	17	15	8	7	3	2	1	1	-	4	2
BENTON	310	-	13	48	66	56	58	24	18	13	6	5	1	-	2
CLACKAMAS	1,099	1	72	151	185	186	205	129	78	37	23	13	6	5	8
CLATSOP	206	1	11	36	39	41	33	19	4	10	6	2	1	2	1
COLUMBIA	777	2	42	143	155	140	101	81	42	31	10	9	7	10	4
COOS	363	-	30	64	74	54	51	26	21	14	10	3	5	7	4
CROOK	84	1	8	16	17	12	12	7	4	3	1	1	-	-	2
CURRY	106	1	9	22	11	13	12	13	5	4	6	3	3	4	-
DESCHUTES	325	1	24	43	62	59	54	34	11	7	4	4	5	6	11
DOUGLAS	478	1	46	76	85	99	61	39	16	15	14	9	4	8	5
GILLIAM	184	1	17	34	35	32	18	11	16	14	4	1	-	-	1
GRANT	65	-	4	11	15	9	9	7	5	2	2	-	-	-	1
HARNEY	45	1	4	6	5	8	6	6	3	1	2	-	1	1	1
HOOD RIVER	175	-	13	29	46	24	29	16	6	6	3	-	-	1	2
JACKSON	991	3	60	163	169	193	148	93	59	33	23	14	6	11	16
JEFFERSON	46	-	4	11	7	12	1	6	2	-	1	-	-	2	-
JOSEPHINE	374	-	27	50	62	79	49	45	23	13	9	5	6	5	1
KLAMATH	359	5	34	66	60	66	52	32	16	6	9	5	2	-	6
LAKE	56	1	8	15	12	5	5	3	3	-	3	-	-	1	-
LANE	1,381	1	97	213	235	274	224	124	83	61	26	23	7	7	6
LINCOLN	203	-	6	32	41	50	20	21	11	8	2	5	4	2	1
LINN	615	1	52	122	122	105	68	57	30	23	13	9	5	3	5
MALHEUR	108	-	10	23	12	12	19	11	8	3	2	2	2	1	3
MARION	558	-	26	109	105	105	93	42	18	12	12	9	6	8	13
MORROW	37	-	4	5	5	7	6	5	1	2	1	-	-	1	-
MULTNOMAH	2,857	1	144	438	562	575	489	250	159	84	59	33	13	22	28
POLK	632	1	46	120	124	114	94	50	35	16	9	12	2	5	4
SHERMAN	8	-	-	-	1	2	-	2	1	-	-	1	1	-	-
TILLAMOOK	268	-	16	61	45	34	41	31	15	9	6	1	5	2	2
UMATILLA	338	3	17	54	70	48	46	40	20	8	6	5	4	8	9
UNION	91	1	3	14	16	15	14	12	2	8	2	1	1	2	-
WALLOWA	52	-	2	10	9	12	8	3	2	-	2	2	-	1	1
WASCO	126	-	10	16	18	32	15	12	11	6	1	3	-	1	1
WASHINGTON	1,196	3	68	191	257	211	192	111	70	30	26	9	10	4	14
WHEELER	59	-	5	5	7	18	13	3	2	1	1	2	1	1	-
YAMHILL	428	2	32	75	96	67	54	36	28	15	4	3	4	3	9

- QUANTITY IS ZERO

TABLE 5-12 DISSOLUTIONS AND ANNULMENTS BY DURATION OF MARRIAGE AND ORDER OF MARRIAGE FOR HUSBAND AND WIFE, OREGON, 1989

DURATION OF MARRIAGE	TOTAL	ORDER OF MARRIAGE				
		FIRST	SECOND	THIRD	FOUR+	N.S.
TOTAL FOR HUSBAND....	15,083	8,585	3,315	1,073	431	1,679
UNDER 1 YEAR.	480	149	139	81	46	65
1 YEAR.....	1,110	527	265	126	66	126
2 YEARS.....	1,206	621	276	122	45	142
3 YEARS.....	1,282	696	288	91	53	154
4 YEARS.....	1,180	636	278	89	50	127
5 YEARS.....	1,067	580	253	83	36	115
6 YEARS.....	957	571	196	69	20	101
7 YEARS.....	883	484	215	59	24	101
8 YEARS.....	781	418	210	56	18	79
9 YEARS.....	643	329	172	58	14	70
10-14 YEARS..	2,283	1,304	529	142	36	272
15-19 YEARS..	1,457	967	274	51	8	157
20-24 YEARS..	857	631	113	25	8	80
25-29 YEARS..	390	307	31	8	2	42
30+ YEARS....	391	307	43	5	2	34
N.S.....	116	58	33	8	3	14
TOTAL FOR WIFE.....	15,083	8,372	3,534	1,184	453	1,540
UNDER 1 YEAR.	480	134	141	94	51	60
1 YEAR.....	1,110	448	308	162	74	118
2 YEARS.....	1,206	606	292	118	54	136
3 YEARS.....	1,282	658	317	117	57	133
4 YEARS.....	1,180	622	291	95	49	123
5 YEARS.....	1,067	548	284	92	44	99
6 YEARS.....	957	542	219	76	21	99
7 YEARS.....	883	463	237	72	21	90
8 YEARS.....	781	427	202	60	20	72
9 YEARS.....	643	337	174	58	12	62
10-14 YEARS..	2,283	1,299	579	126	35	244
15-19 YEARS..	1,457	977	277	55	10	138
20-24 YEARS..	857	652	101	26	3	75
25-29 YEARS..	390	301	39	10	-	40
30+ YEARS....	391	305	41	9	1	35
N.S.....	116	53	32	14	1	16

- QUANTITY IS ZERO

TABLE 5-13 DISSOLUTION OF MARRIAGES AND ANNULMENTS BY STATE OR REGION WHERE MARRIAGE OCCURRED BY DURATION OF MARRIAGE, OREGON, 1989

STATE OR REGION OF MARRIAGE	TOTAL	UNDER 1 YEAR	1 - 4 YEARS	5 - 9 YEARS	10 - 19 YEARS	20 + YEARS	NOT STATED
TOTAL	15,083	480	4,778	4,331	3,740	1,638	116
NEW ENGLAND	56	-	12	11	15	18	-
MIDDLE ATLANTIC	102	1	20	18	32	31	-
EAST NORTH CENTRAL	214	2	19	50	79	64	-
WEST NORTH CENTRAL	216	4	50	55	57	48	2
SOUTH ATLANTIC	177	2	54	41	56	23	1
EAST SOUTH CENTRAL	57	1	13	11	16	15	1
WEST SOUTH CENTRAL	218	3	56	68	58	32	1
MOUNTAIN	2,671	115	813	754	704	274	11
MONTANA	59	3	13	16	13	14	-
IDAHO	321	13	88	76	85	59	-
WYOMING	29	-	7	8	12	2	-
COLORADO	97	1	16	33	27	18	2
NEW MEXICO	34	1	4	11	11	7	-
ARIZONA	89	1	34	14	27	13	-
UTAH	73	3	16	21	26	7	-
NEVADA	1,969	93	635	575	503	154	9
PACIFIC	11,089	347	3,685	3,268	2,632	1,075	82
OREGON	8,282	288	3,035	2,487	1,798	612	62
WASHINGTON	1,608	49	421	481	442	202	13
CALIFORNIA	1,055	9	179	250	361	250	6
ALASKA	65	-	22	29	11	2	1
HAWAII	79	1	28	21	20	9	-
CANADA	41	1	7	10	14	9	-
MEXICO	17	-	-	3	10	4	-
PUERTO RICO	1	-	-	-	1	-	-
VIRGIN ISLANDS	3	-	-	2	1	-	-
GUAM	2	-	1	-	1	-	-
CUBA	-	-	-	-	-	-	-
NOT STATED	38	1	9	5	2	3	18

- QUANTITY IS ZERO

TABLE 5-14. MEDIAN DURATION OF MARRIAGE BEFORE DIVORCE, OREGON, 1979-1989

SPOUSE	YEAR	ALL MARRIAGES	ORDER OF MARRIAGE			
			1st	2nd	3rd	4th +
Wife	1979	6.1	7.1	5.1	3.5	2.5
	1980	6.1	7.2	4.9	3.7	2.8
	1981	6.4	7.6	5.1	3.9	2.9
	1982	6.6	7.9	5.2	3.9	3.1
	1983	6.8	8.2	5.7	4.1	3.0
	1984	6.6	7.9	5.6	4.2	3.3
	1985	6.6	7.8	5.8	4.1	3.4
	1986	6.8	7.9	5.9	4.6	3.5
	1987	6.7	7.8	5.9	4.6	3.5
	1988	7.0	8.2	6.4	4.5	3.5
	1989	7.2	8.3	6.5	5.0	3.8
Husband	1979	6.1	7.2	4.9	3.7	2.9
	1980	6.1	7.2	4.7	3.8	2.8
	1981	6.4	7.6	5.1	3.9	3.2
	1982	6.6	7.9	5.2	3.9	3.3
	1983	6.8	8.2	5.6	4.4	3.3
	1984	6.6	7.8	5.5	4.2	3.9
	1985	6.6	7.6	5.7	4.5	4.0
	1986	6.8	7.8	5.7	4.8	3.8
	1987	6.7	7.7	5.9	4.9	3.8
	1988	7.0	8.0	6.1	5.5	3.4
	1989	7.2	8.0	6.7	5.3	4.1

TABLE 5-15. MARRIAGES AND DISSOLUTIONS (INCLUDING ANNULMENTS) BY COUNTY OF OCCURRENCE, OREGON, 1989

COUNTY OF OCCURRENCE	MARRIAGES		DISSOLUTIONS AND ANNULMENTS	
	TOTAL	RATE 1/	TOTAL	RATE 1/
TOTAL	23,908	8.6	15,083	5.4
BAKER	146	9.5	83	5.4
BENTON	509	7.2-	310	4.4-
CLACKAMAS	2,216	8.3	1,099	4.1-
CLATSOP	372	10.6+	206	5.9
COLUMBIA	274	7.3	777	20.8+
COOS	546	9.1	363	6.0
CROOK	124	9.1	84	6.2
CURRY	185	9.6	106	5.5
DESCHUTES	746	10.6+	325	4.6-
DOUGLAS	833	8.8	478	5.0
GILLIAM	15	8.1	184	99.5+
GRANT	57	6.9	65	7.8
HARNEY	48	6.5-	45	6.1+
HOOD RIVER	213	12.5+	175	10.3+
JACKSON	1,370	9.4+	991	6.8
JEFFERSON	112	9.3	46	3.8-
JOSEPHINE	482	7.5-	374	5.8
KLAMATH	432	7.4-	359	6.1+
LAKE	50	6.8	56	7.6+
LANE	2,461	8.8	1,381	4.9-
LINCOLN	501	12.7+	203	5.1
LINN	850	9.4+	615	6.8+
MALHEUR	155	6.0-	108	4.2-
MARION	1,961	8.8	558	2.5-
MORROW	46	6.1-	37	4.9
MULTNOMAH	5,179	8.9	2,857	4.9-
POLK	328	6.9-	632	13.2+
SHERMAN	4	2.0-	8	4.0
TILLAMOOK	176	8.1	268	12.4+
UMATILLA	459	7.9	338	5.8
UNION	198	8.5	91	3.9-
WALLOWA	50	6.9	52	7.2
WASCO	195	9.2	126	6.0
WASHINGTON	2,078	7.0-	1,196	4.1-
WHEELER	9	6.4	59	42.1+
YAMHILL	528	8.7	428	7.1+

1/ ALL RATES PER 1,000 POPULATION

MORBIDITY

Morbidity

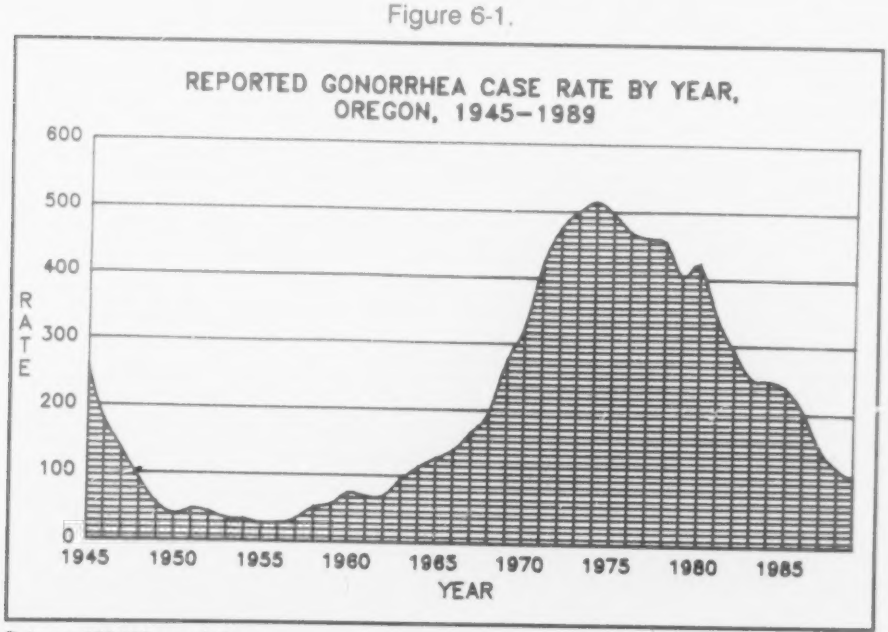
SEXUALLY TRANSMITTED DISEASES. Early syphilis infections remained epidemic in Oregon during 1989. Similar to 1987 and 1988, the epidemic has been centered in the Northern Willamette Valley. Compared to 1988 there were 18 percent fewer infections reported during 1989. This decrease was reflected in all gender and racial categories. The African American community continued to be disproportionately represented, accounting for 43 percent of all the early syphilis cases during 1989. Only two cases of newborn congenital syphilis were reported during 1989. This is a welcome decrease compared with the nine cases seen in 1988.

Gonorrhea infections decreased by 6 percent in 1989 compared with 1988. This represents the tenth straight year of continuous decline in the number of gonorrhea cases. Notable concerns include: increased morbidity among African Americans and Hispanics and an increase of resistant gonococcal infections, especially in the Portland tri-county area.

Reported chlamydia infections remained fairly constant in 1989 compared with 1988. The 6,734 cases reported during 1989 represent a 6 percent decrease compared with 1988. Rates of chlamydia infection are relatively uniform throughout Oregon communities. In contrast, rates of syphilis and gonococcal infections are clustered in the Northern Willamette Valley. During 1989 public and private family planning clinics screened 27,082 women for chlamydia. Of those, 1,565 (5.8 percent) were positive for chlamydia.

ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS). Cumulative morbidity and mortality from AIDS reached 697 cases and 398 case deaths as of December 31, 1989. AIDS cases were reported from 29 counties, with 67 percent from Multnomah, 6.9 percent from Lane, 5.9 percent from

Figure 6-1.



Rate per 100,000 population

Washington, and 5.2 percent from Clackamas County. Seventy-seven percent of the AIDS cases were homosexual/bisexual men, 10 percent were homosexual/bisexual intravenous drug users, and 4 percent were heterosexual intravenous drug users. Women with AIDS comprised 3 percent of the total AIDS cases. Ninety percent of the AIDS cases were to persons between 20 and 49 years old, with 47 percent of the cases in the 30- to 39-year-old age group. Sex and age group breakdown percentages for Oregon AIDS cases are close to the national values. Race group breakdowns differ. Ninety-three percent of Oregon AIDS cases are among whites, compared to 56 percent nationally. African Americans comprise 2 percent and Hispanics 4 percent of AIDS cases in Oregon, compared to national percentages of 27 percent and 16 percent, respectively.

Two hundred twenty-one new Oregon AIDS cases were reported in 1989. This number represents a 26 percent increase over the 176 cases reported in 1988 (Figure 6-2). The number of new cases is expected to continue to increase at least through 1993. Oregon's cumulative AIDS incidence ranks 21st among the states and the District of Columbia. Oregon's annual incidence rate is 8.0 cases per 100,000 population compared to a national rate of 14.1 cases per 100,000 population.

Reported Tuberculosis Cases By Race, Oregon, 1989

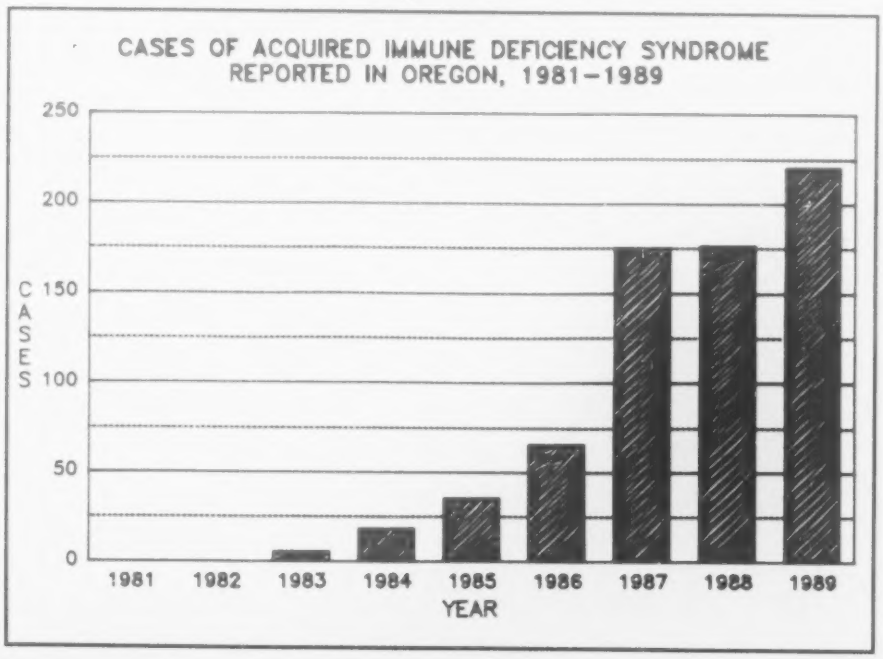
RACE	NUMBER OF CASES	RATE PER 100,000
White	80	3.18
Hispanic	20	26.70
African American	8	20.36
American Indian	5	17.41
Asian	38	70.36

Verified Asian Cases By Country of Birth, Oregon, 1989

COUNTRY OF BIRTH	NUMBER OF CASES	PERCENT
Total	38	100
Vietnam	18	47
Korea	6	16
Philippines	4	11
United States	2	5
China	2	5
Thailand	2	5
Micronesia	1	3
Cambodia	1	3
Laos	1	3
Unknown	1	2

TUBERCULOSIS. During 1989 there were 151 verified new cases of tuberculosis in Oregon, at a case rate of 5.4 per 100,000 population as compared to 9.5 for the nation as a whole. This represents a 6 percent decrease in cases from 1988 for Oregon, but an 11 percent increase from the 136 cases reported in 1986. The highest rate of tuberculosis was found in the Asian population with a case rate of 70.4 compared to case rates of 3.2 in the white population, 20.4 in the African American population, and 26.7 in the Hispanic population. There was also a higher case rate in the older population at 8.9 for persons over the age of 65 as compared to 4.8 for all persons younger than 65. Concurrent tuberculosis with AIDS remains

Figure 6-2.



low in the state of Oregon with 3.3 percent of verified cases of tuberculosis in 1989 simultaneously having AIDS.

HEPATITIS A AND B. Hepatitis A reached a record high with 2,366 cases reported during 1989. This represented a 60 percent increase over 1988 and an overall incidence of 84.8 cases per 100,000 residents. The distribution of cases by age group and sex remained essentially unchanged when compared with previous years.

Hepatitis B cases continued to decline with 563 reported in 1989. This represented a decrease of 8 percent from the 611 cases reported in 1988 and an overall incidence rate of 20.2 cases per 100,000 residents.

MENINGOCOCCAL DISEASE. Onset of illness due to meningococcal infections occurred among 56 residents during 1989 representing an overall risk of 2.0 cases of invasive disease per 100,000 residents. The distribution of serogroups was similar to previous years with serogroup B predominating. Onset of illness during February and March comprised 41 percent of the cases. Age and sex distributions were essentially unchanged when compared with 1988. All 56 cases represented sporadic onset of illness among individuals without documented exposure to other persons with meningococcal disease.

HAEMOPHILUS INFLUENZAE INVASIVE DISEASE. A total of 67 cases was reported with onset of illness during 1989. Residents at highest risk were those under five years of age, and especially infants who constituted 48 percent of all cases.

MEASLES. Over the past ten years measles morbidity has ranged from 0 to 17 cases per year with the exception of 1987 and 1989. Two outbreaks accounted for over 60 percent of the 132 cases reported in Oregon in 1987. One outbreak was in teenagers in middle and high school in a coastal area and the other in a boarding school. In 1989, the 82 cases were the result of three small outbreaks. The first was in an unimmunized extended family, the second was in a high school, and the third was due to an imported case who subsequently infected 20 people.

Incidence rates by age for 1989 clearly show that those under 5 years of age (11.8 per 100,000 population) and those 15 to 19 years of age (15 per 100,000 population) are the groups at highest risk of measles. Half the cases were male and half female. Sixty-five percent of the cases occurred in May, June, and July. November and December accounted for 24 percent of cases.

Examination of immunization histories of cases reveals that more emphasis needs to be placed on increasing the number of people immunized at appropriate ages.

Reported Cases of Measles by Year of Onset of Illness, Oregon, 1980-1989

YEAR	NUMBER OF CASES
1980	1
1981	5
1982	17
1983	10
1984	0
1985	5
1986	12
1987	132
1988	7
1989	82

Figure 6-3.

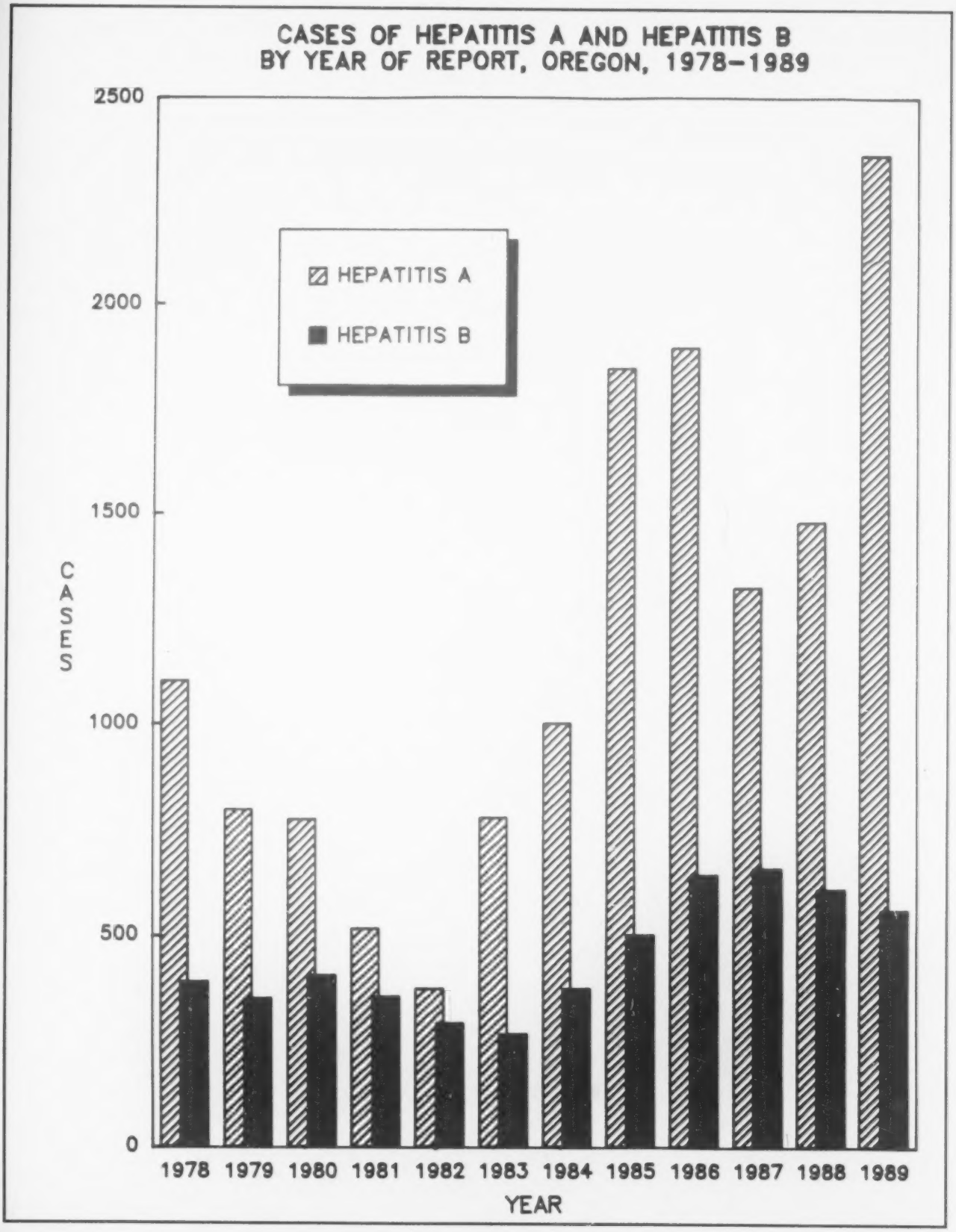

CASES OF HEPATITIS A AND HEPATITIS B
BY YEAR OF REPORT, OREGON, 1978–1989
2500
2000
1500
1000
500
0
CASES
HEPATITIS A
HEPATITIS B
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
YEAR

TABLE 6-1. REPORTED CASES OF GONORRHEA BY AGE GROUP AND SEX, OREGON, 1989

AGE GROUP AND SEX	1984		1985		1986		1987		1988		1989	
	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE
TOTAL	6,635	249.4	6,409	239.5	5,481	206.1	4,043	150.3	3,221	117.5	3,024	108.3
MALE	3,565	272.8	3,529	268.6	3,114	238.4	2,254	170.9	1,862	138.6	1,921	140.4
FEMALE	3,070	226.9	2,880	211.5	2,367	174.9	1,789	130.5	1,359	97.2	1,303	91.6
UNDER 10	10	2.6	3	0.8	7	1.8	8	2.0	14	3.5	3	0.7
MALE	2	1.0	2	1.0	1	0.3	1	0.3	8	4.0	-	0.0
FEMALE	8	4.2	1	0.5	6	1.5	7	3.6	6	3.2	3	1.5
10 - 14	104	54.8	79	42.7	74	41.5	42	23.7	53	28.6	39	20.3
MALE	11	11.3	12	12.7	6	6.6	11	12.1	8	8.4	6	6.1
FEMALE	93	100.3	67	74.3	68	78.0	31	35.9	45	49.9	3	3.2
15 - 19	1,728	849.1	1,697	857.9	1,336	663.5	1,070	555.7	771	392.1	832	416.9
MALE	603	581.3	625	618.1	523	507.6	429	435.4	318	317.0	336	328.9
FEMALE	1,125	1127.5	1,072	1108.6	813	826.8	641	681.9	453	470.0	496	509.2
20 - 24	2,166	963.2	1,944	901.5	1,646	752.0	1,155	570.5	902	451.6	946	444.5
MALE	1,225	1079.4	1,104	1009.0	936	840.2	659	636.5	532	521.0	558	513.1
FEMALE	941	844.7	840	790.8	710	660.7	496	501.5	370	379.0	388	372.9
25 - 29	1,069	469.9	1,118	490.7	994	461.5	727	328.8	569	255.2	516	233.4
MALE	703	626.0	752	668.3	640	602.7	429	392.9	368	331.3	339	306.1
FEMALE	366	317.7	366	317.4	354	324.2	298	266.2	201	179.7	177	160.5
30 - 34	529	219.6	534	219.1	535	231.8	376	156.3	344	143.1	275	122.2
MALE	392	324.0	385	316.7	390	339.9	256	214.6	237	199.3	180	162.4
FEMALE	137	114.3	149	122.0	145	125.0	120	99.0	107	88.1	95	83.2
35 - 39	253	121.4	257	115.5	268	118.5	191	81.9	172	72.0	145	60.4
MALE	191	181.6	186	165.8	213	187.1	141	123.0	128	106.9	102	85.2
FEMALE	62	60.1	71	64.4	55	49.0	47	40.5	44	36.9	42	34.9
40 +	234	24.0	237	24.0	244	24.5	213	20.7	187	17.6	166	15.1
MALE	187	41.2	200	43.4	205	44.1	188	39.2	163	33.0	142	27.7
FEMALE	47	9.0	37	7.0	39	7.3	25	4.5	24	4.2	24	4.1
AGE N.S.	542		540		377		261		209		102	
MALE	251		263		200		137		100		57	
FEMALE	291		277		177		124		109		45	

ALL RATES PER 100,000 POPULATION WITHIN THE SPECIFIC AGE GROUP.

TABLE 6-2. REPORTED CASES OF PRIMARY AND SECONDARY SYPHILIS BY AGE GROUP, OREGON, 1983-1989

AGE GROUP	1983		1984		1985		1986		1987		1988		1989	
	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE
TOTAL	144	5.5	117	4.4	112	4.2	126	4.7	310	11.5	324	11.8	244	8.7
10-14	-	-	-	-	1	0.5	-	0.0	3	1.7	1	0.5	3	1.6
15-19	3	1.4	10	4.9	10	5.1	12	6.0	25	13.0	45	22.9	22	11.0
20-24	26	11.8	18	8.0	20	9.3	34	15.5	80	39.5	75	37.5	61	28.7
25-29	33	14.1	228	12.3	25	11.0	27	12.5	76	34.4	74	33.1	48	21.7
30-34	32	13.5	20	8.3	21	8.6	27	11.7	52	21.6	61	25.4	43	19.1
35-39	22	11.1	12	5.8	15	6.7	12	5.3	41	17.6	27	11.3	40	16.7
40+	28	2.9	29	3.0	20	2.0	14	1.4	32	3.1	41	3.9	27	2.5

INCLUDES PRIMARY AND SECONDARY SYPHILIS ONLY.

RATES PER 100,000 POPULATION WITHIN THE SPECIFIC AGE GROUP.

TABLE 6-3. REPORTED CASES OF SYPHILIS AND GONORRHEA, OREGON, 1945-1989

YEAR	SYPHILIS			GONORRHEA	
	TOTAL		PRIMARY AND SECONDARY (CONTAGIOUS)	CASES	RATE
	CASES	RATE			
1945	1,717	139.9	472	3,214	261.9
1946	1,447	107.4	493	2,438	180.9
1947	1,427	100.3	439	1,945	136.7
1948	1,205	81.9	286	2,363	92.7
1949	703	46.5	152	854	56.5
1950	525	34.5	54	614	40.4
1951	381	24.3	46	745	47.5
1952	629	39.3	56	702	43.8
1953	683	41.7	48	557	34.0
1954	713	42.9	44	548	33.0
1955	609	36.0	37	470	27.8
1956	598	34.5	52	490	28.2
1957	589	33.9	21	611	35.2
1958	716	41.4	22	916	53.0
1959	746	42.0	46	1,029	57.9
1960	637	36.0	72	1,331	75.3
1961	524	28.8	43	1,258	69.3
1962	561	30.7	49	1,287	70.5
1963	593	31.9	73	1,783	96.1
1964	377	19.8	76	2,177	114.2
1965	427	22.4	47	2,520	127.8
1966	222	11.1	46	2,811	140.8
1967	206	10.3	43	3,363	167.6
1968	199	9.7	41	4,056	197.8
1969	201	9.7	43	5,799	277.6
1970	177	8.5	32	6,793	324.8
1971	114	5.3	15	9,043	422.0
1972	113	5.2	40	10,206	476.5
1973	148	6.7	49	11,146	501.0
1974	237	10.5	118	11,704	516.5
1975	304	13.2	145	11,449	498.0
1976	250	10.7	106	11,022	470.7
1977	282	11.8	144	11,044	460.9
1978	415	16.8	170	11,253	455.2
1979	361	14.2	168	10,278	404.0
1980	296	11.2	109	11,162	424.0
1981	272	10.2	123	9,189	345.4
1982	214	8.1	111	7,796	293.5
1983	274	10.4	144	6,672	253.2
1984	251	9.4	117	6,635	249.4
1985	236	8.8	112	6,409	239.5
1986	234	8.8	126	5,481	206.1
1987	678	25.2	310	4,043	150.3
1988	811	29.6	324	3,221	117.5
1989	510	18.3	244	3,025	108.4

RATES PER 100,000 POPULATION.

TABLE 6-4. REPORTED CASES OF SYPHILIS AND GONORRHEA BY COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	SYPHILIS						GONORRHEA		CHLAMYDIA	
	TOTAL		PRIMARY AND SECONDARY (CONTAGIOUS)	EARLY LATENT	LATE	CONGENITAL				
	CASES	RATE					CASES	RATE	CASES	NUMBER
TOTAL	3,535	126.7	244	180	84	2	3025	108.4	6,734	253.2
BAKER	5	32.6	-	-	-	-	5	32.6	4	25.8
BENTON	19	26.8	-	-	-	-	19	26.8	141	213.3
CLACKAMAS	140	52.7	8	5	4	-	123	46.3	321	129.3
CLATSOP	9	25.6	1	1	-	-	7	19.9	76	231.0
COLUMBIA	6	16.1	1	1	-	-	4	10.7	52	144.0
COOS	15	24.9	-	2	-	-	13	21.6	103	179.1
CROOK	10	73.5	-	3	-	-	7	51.5	18	133.3
CURRY	3	15.6	-	-	-	-	3	15.6	6	35.5
DESCHUTES	28	39.7	1	-	-	-	27	38.2	164	250.8
DOUGLAS	16	16.8	-	2	-	-	14	14.7	83	89.5
GILLIAM	-	0.0	-	-	-	-	-	0.0	-	0.0
GRANT	-	0.0	-	-	-	-	-	0.0	11	131.7
HARNEY	-	0.0	-	-	-	-	-	0.0	10	140.8
HOOD RIVER	5	29.4	-	-	1	-	4	23.5	45	277.8
JACKSON	74	51.0	5	4	1	-	64	44.1	219	152.2
JEFFERSON	18	148.8	-	1	3	-	14	115.7	56	466.7
JOSEPHINE	11	17.1	-	1	-	-	10	15.6	105	170.9
KLAMATH	25	42.7	-	-	1	-	24	41.0	157	276.9
LAKE	5	67.6	-	-	-	-	5	67.6	1	13.7
LANE	139	49.6	4	3	2	1	129	46.1	700	267.5
LINCOLN	13	32.9	-	2	-	-	11	27.8	69	187.0
LINN	31	34.4	1	-	1	-	29	32.2	243	282.4
MALHEUR	7	26.9	-	2	-	-	5	19.2	27	103.1
MARION	404	180.4	31	38	14	-	321	143.3	687	328.4
MORROW	1	13.3	-	-	-	-	1	13.3	6	77.0
MULTNOMAH	2,260	389.0	178	98	45	1	1938	333.6	2,436	430.2
POLK	37	77.4	3	7	-	-	27	56.5	102	223.7
SHERMAN	-	0.0	-	-	-	-	-	0.0	-	0.0
TILLAMOOK	-	0.0	-	-	-	-	-	0.0	19	89.2
UMATILLA	35	60.2	1	2	-	-	32	55.1	180	306.6
UNION	8	34.3	-	-	-	-	8	34.3	11	47.8
WALLOWA	-	0.0	-	-	-	-	-	0.0	-	-
WASCO	10	47.4	-	-	2	-	8	37.9	16	67.5
WASHINGTON	181	61.4	9	6	6	-	160	54.2	571	208.9
WHEELER	-	0.0	-	-	-	-	-	0.0	1	66.7
YAMHILL	20	32.9	1	2	4	-	13	21.4	94	164.6

RATES PER 100,000 POPULATION.

NO REPORTED CASES OF CHANCROID, LGV, GRANULOMA INGUINALE.

TABLE 6-5. REPORTED TUBERCULOSIS CASES AND DEATHS, OREGON, 1950-1989

YEAR	CASES		DEATHS	
	NUMBER	RATE	NUMBER	RATE
1950	676	44.4	201	13.2
1951	765	48.8	209	13.3
1952	863	53.9	146	9.1
1953	656	40.1	112	6.8
1954	636	38.2	84	5.1
1955	638	37.7	80	4.7
1956	593	34.2	70	4.0
1957	578	33.3	62	3.6
1958	572	33.1	54	3.1
1959	560	31.5	69	3.9
1960	492	27.8	63	3.6
1961	454	25.0	57	3.1
1962	417	22.8	43	2.3
1963	395	21.3	51	2.7
1964	416	21.8	48	2.5
1965	361	18.3	34	1.8
1966	386	19.3	43	2.2
1967	322	16.0	37	1.8
1968	290	14.1	29	1.4
1969	357	17.2	24	1.2
1970	265	12.7	18	0.9
1971	249	11.6	29	1.4
1972	234	10.7	30	1.4
1973	239	10.7	30	1.3
1974	207	9.1	24	1.1
1975	194	8.4	20	0.9
1976	197	8.4	20	0.9
1977	171	7.1	13	0.5
1978	204	8.3	21	0.8
1979	179	7.0	20	0.8
1980	218	8.3	27	1.0
1981	206	7.7	18	0.7
1982	194	7.3	14	0.5
1983	182	6.9	19	0.7
1984	156	5.9	23	0.9
1985	144	5.4	16	0.6
1986	136	5.1	7	0.3
1987	159	6.0	15	0.6
1988	161	5.9	16	0.6
1989	151	5.4	18	0.6

ALL RATES PER 100,000 POPULATION.

FROM 1950 TO 1974 NEW CASES INCLUDED THOSE CASES FIRST REPORTED IN THAT YEAR. SINCE 1975 NEW CASES INCLUDE THOSE CASES FIRST REPORTED IN THAT YEAR PLUS REACTIVATIONS.

TABLE 6-6. VERIFIED TUBERCULOSIS CASES BY AGE, OREGON, 1989

AGE GROUP	NUMBER OF CASES	RATE
TOTAL	151	5.4
0-4	3	1.5
5-9	3	1.5
10-14	-	0.0
15-19	9	4.5
20-24	9	4.2
25-34	28	6.3
35-44	24	5.4
45-54	23	8.1
55-64	18	8.0
65+	34	8.9

TABLE 6-7. CASES OF REPORTABLE DISEASE BY MONTH OF REPORT, OREGON, 1989

DISEASE	TOTAL	MONTH											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AIDS	238	24	16	24	18	9	27	22	17	18	23	10	30
AMEBIASIS	99	1	1	6	7	13	8	10	13	4	8	13	15
BOTULISM	4	-	1	-	-	-	1	1	-	-	-	1	-
CAMPYLOBACTERIOSIS	999	25	31	45	67	74	129	123	166	65	90	104	80
GIARDIASIS	1,078	33	59	88	77	80	91	87	163	92	121	98	89
HAEMOPHILUS INFLUENZAE	67	6	5	11	4	4	12	3	5	0	6	10	1
HEPATITIS A	2,366	125	244	191	198	235	274	218	207	180	163	167	164
HEPATITIS B	563	19	33	40	43	38	76	47	53	40	43	62	69
HEPATITIS NON A NON B	83	6	7	11	7	5	7	6	4	9	3	11	7
HEPATITIS UNSPECIFIED	18	-	-	4	3	1	1	-	1	3	2	1	2
LEGIONELLOSIS	2	-	-	1	-	-	-	-	-	1	-	-	-
LEPROSY	2	-	-	-	-	1	-	-	-	-	-	-	1
MALARIA	21	-	2	1	4	1	3	4	3	1	1	-	1
MEASLES	82	-	-	-	-	6	7	3	12	1	32	10	11
MENINGOCOCCAL	59	5	7	10	10	2	6	2	2	1	2	7	5
PERTUSSIS	18	-	-	2	2	1	1	1	1	6	2	2	-
PSITTACOSIS	7	-	1	1	1	-	-	-	1	-	1	-	2
RUBELLA	3	-	-	1	-	1	1	-	-	1	-	-	-
SALMONELLOSIS 1/	322	15	10	14	22	22	29	13	55	21	43	21	57
SHIGELLOSIS	121	3	5	5	13	6	10	15	10	15	17	7	15
TULAREMIA	5	-	-	-	-	-	-	1	2	2	-	-	-
TYPHOID FEVER	6	-	-	-	4	-	-	1	-	-	1	-	-
ROCKY MOUNTAIN SPOTTED FEVER	2	-	-	-	1	-	-	-	1	-	-	-	-

1/ EXCLUDING TYPHOID FEVER

TABLE 6-8. CASES OF REPORTABLE DISEASE BY COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	AIDS	AMEBIASIS	HEPATITIS				MALARIA
			TYPE A	TYPE B	NON A NON B	UNSPECIFIED	
TOTAL	221	99	2,366	563	83	18	21
BAKER	1	-	-	-	-	-	-
BENTON	2	5	50	5	-	1	2
CLACKAMAS	12	7	176	19	4	-	-
CLATSOP	1	-	99	17	1	-	-
COLUMBIA	2	-	18	9	2	-	1
COOS	4	9	53	10	2	-	-
CROOK	1	-	-	-	-	-	-
CURRY	-	-	4	9	-	-	-
DESCHUTES	5	-	27	9	1	-	-
DOUGLAS	4	1	54	20	3	4	-
GILLIAM	-	-	-	-	-	-	-
GRANT	-	-	1	-	-	-	-
HARNEY	-	-	-	-	-	-	-
HOOD RIVER	-	9	10	3	-	-	-
JACKSON	1	1	136	22	5	-	1
JEFFERSON	-	-	3	1	2	-	1
JOSEPHINE	1	-	38	11	7	-	-
KLAMATH	-	-	36	9	1	-	-
LAKE	-	-	1	2	-	-	-
LANE	15	21	163	38	11	2	1
LINCOLN	1	-	44	9	-	-	-
LINN	2	-	121	13	6	1	1
MALHEUR	-	-	-	1	-	-	-
MARION	5	6	262	104	10	1	-
MORROW	-	-	1	2	-	-	-
MULTNOMAH	146	26	693	183	18	9	11
POLK	2	-	15	6	2	-	-
TILLAMOOK	2	-	13	4	-	-	-
UMATILLA	1	-	30	9	2	-	-
UNION	1	1	1	4	1	-	-
WALLOWA	1	-	-	1	-	-	-
WASCO-SHERMAN	1	-	29	2	-	-	-
WASHINGTON	10	12	244	32	4	-	3
WHEELER	-	-	-	-	-	-	-
YAMHILL	-	1	44	9	1	-	-

WASCO AND SHERMAN COUNTIES REPORTED TOGETHER

TABLE 6-8. CASES OF REPORTABLE DISEASE BY COUNTY OF RESIDENCE, OREGON, 1989 (CONTINUED)

COUNTY OF RESIDENCE	MENINGO-COCCAL	PERTUSSIS	SALMONELLOSIS	SHIGELLOSIS	TUBERCULOSIS	TULAREMIA	TYPHOID	MEASLES
TOTAL	59	18	322	121	151	5	6	82
BAKER	-	-	1	-	-	-	-	-
BENTON	2	-	17	2	1	-	-	-
CLACKAMAS	6	1	42	10	2	-	-	-
CLATSOP	3	-	3	3	-	-	-	-
COLUMBIA	2	-	2	-	-	-	-	-
COOS	1	-	6	1	2	-	-	2
CROOK	-	-	1	-	-	-	-	-
CURRY	1	-	-	1	1	-	-	-
DESCHUTES	1	-	12	3	1	2	-	-
DOUGLAS	1	3	10	7	2	-	-	-
GILLIAM	-	-	-	-	-	-	-	-
GRANT	-	-	-	-	-	-	-	-
HARNEY	-	-	-	-	-	-	-	-
HOOD RIVER	-	-	1	4	2	-	-	-
JACKSON	3	-	22	11	8	-	-	36
JEFFERSON	-	-	2	2	1	1	-	-
JOSEPHINE	4	2	4	3	1	-	4	3
KLAMATH	2	-	4	4	2	-	-	-
LAKE	-	-	-	-	-	-	-	-
LANE	3	1	30	9	9	-	-	2
LINCOLN	-	-	6	2	1	-	-	-
LINN	2	1	16	-	1	-	-	-
MALHEUR	-	-	4	2	3	-	-	-
MARION	6	2	26	18	15	-	-	19
MORROW	-	-	1	1	-	-	-	-
MULTNOMAH	13	4	70	25	76	2	2	7
POLK	-	-	-	-	1	-	-	1
TILLAMOOK	1	-	-	-	2	-	-	1
UMATILLA	2	-	2	-	1	-	-	-
UNION	-	-	-	-	-	-	-	-
WALLOWA	-	-	-	-	-	-	-	-
WASCO-SHERMAN	-	3	-	1	3	-	-	-
WASHINGTON	5	-	34	11	15	-	-	11
WHEELER	-	-	2	-	-	-	-	-
YAMHILL	1	1	4	1	1	-	-	-

WASCO AND SHERMAN COUNTIES REPORTED TOGETHER.

TABLE 6-9. REPORTED CASES OF HEPATITIS A PER 100,000 POPULATION BY AGE AND SEX, OREGON 1979, 1984-1989

AGE GROUP IN YEARS	1979			1984-1988			1989		
	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL
TOTAL	34.5	28.5	31.4	68.0	42.9	56.0	100.0	69.4	84.8
<5	6.7	9.0	7.8	31.6	25.4	29.5	50.1	36.8	43.6
5-9	21.6	34.8	28.1	54.4	47.5	52.2	75.9	85.4	80.5
10-14	15.5	25.2	20.3	46.4	36.9	42.4	66.8	71.8	69.3
15-19	22.9	32.6	27.6	79.8	60.0	70.2	107.7	83.2	95.6
20-24	68.5	48.6	58.6	164.3	104.2	136.2	172.9	135.5	155.5
25-29	87.6	44.7	65.4	171.2	104.0	138.8	231.1	155.9	195.0
30-39	43.6	38.8	41.2	86.6	50.5	68.8	163.1	99.4	131.2
40-49	33.4	19.6	26.4	32.5	23.0	28.0	78.6	45.4	62.1
50-59	12.4	22.9	17.9	18.8	15.2	16.9	41.6	31.7	36.5
60+	18.4	9.6	13.5	9.5	7.6	8.5	15.5	14.0	14.7

TABLE 6-10. REPORTED CASES OF MENINGOCOCCAL DISEASE BY SEROGROUP AND INCIDENCE PER 100,000 POPULATION, 1986-1989

YEAR	NUMBER OF CASES PER SEROGROUP							INCIDENCE RATE
	A	B	C	Y	W-135	UNKNOWN	TOTAL	
1985	1	16	4	1	1	16	39	1.5
1986	1	16	3	-	-	18	38	1.4
1987	-	10	3	-	-	24	37	1.3
1988	-	12	5	1	1	28	47	1.7
1989 1/	-	29	5	1	-	21	56	2.0

1/ INCLUDES ONLY PERSONS WITH ONSET OF ILLNESS DURING THE YEAR

TABLE 6-11. REPORTED CASES 1/ OF MENINGOCOCCAL DISEASE BY AGE AND SEX, OREGON, 1989

AGE GROUP IN YEARS	NUMBER OF CASES		
	MALE	FEMALE	TOTAL
TOTAL	27	29	56
<1	5	4	9
1	3	3	6
2	4	3	7
3	-	2	2
4	1	2	3
5-9	1	2	3
10-14	4	5	9
15-19	1	2	3
20-24	3	1	4
25-29	2	-	2
30-39	1	1	2
40-49	-	1	1
50-59	-	-	-
60+	2	3	5

TABLE 6-12. REPORTED CASES OF MENINGOCOCCAL DISEASE BY MONTH OF ONSET OF ILLNESS, OREGON, 1980-1989

MONTH	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
TOTAL	61	74	75	58	50	42	41	34	42	56
JANUARY	5	5	6	3	7	5	6	3	6	9
FEBRUARY	12	6	9	4	6	7	1	4	2	9
MARCH	11	11	9	8	4	6	6	2	4	9
APRIL	7	12	13	12	9	2	3	1	6	4
MAY	1	8	13	4	6	3	0	2	4	2
JUNE	4	5	3	1	3	1	1	3	2	4
JULY	2	2	5	3	2	4	6	3	2	3
AUGUST	1	1	1	0	2	2	3	1	2	1
SEPTEMBER	4	2	4	4	2	2	1	0	3	2
OCTOBER	4	7	3	10	3	3	4	4	5	2
NOVEMBER	4	4	4	8	5	3	4	6	5	4
DECEMBER	6	11	5	1	1	4	6	5	1	7

TABLE 6-13. REPORTED CASES OF MENINGOCOCCAL DISEASE AND INCIDENCE RATES PER 100,000 POPULATION, BY YEAR OF REPORT, OREGON, 1963-1989

YEAR	NUMBER OF CASES	RATE PER 100,000
1963	36	1.93
1964	33	1.73
1965	42	2.13
1966	43	2.15
1967	32	1.59
1968	27	1.32
1969	25	1.20
1970	33	1.58
1971	44	2.06
1972	14	0.64
1973	19	0.85
1974	22	0.97
1975	16	0.70
1976	24	1.02
1977	26	1.09
1978	39	1.58
1979	33	1.30
1980	58	2.20
1981	68	2.56
1982	85	3.20
1983	60	2.28
1984	50	1.88
1985	39	1.46
1986	38	1.43
1987	37	1.38
1988	47	1.71
1989	59	2.11

TABLE 6-14. REPORTED CASES 1/ OF MENINGOCOCCAL DISEASE PER 100,000 POPULATION BY AGE, OREGON, 1989

AGE GROUP IN YEARS	NUMBER OF CASES	INCIDENCE RATE
TOTAL	56	2.0
<5	27	13.9
5-19	15	2.5
20-59	9	0.6
60+	5	1.0

1/ PERSONS WITH ONSET OF ILLNESS DURING 1989.

TABLE 6-15. REPORTED CASES OF INVASIVE HAEMOPHILUS INFLUENZAE DISEASE 1/ BY AGE AND SEROTYPE, OREGON, 1989

AGE GROUP	SEROTYPE B			SEROTYPE UNKNOWN			ALL CASES		
	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL
TOTAL	27	17	44	8	15	23	35	32	67
<6 MOS.	4	2	6	1	4	5	5	6	11
6-11 MOS.	11	6	17	2	2	4	13	8	21
12-14 MOS.	1	-	1	-	-	-	1	-	1
15-17 MOS.	2	3	5	-	1	1	2	4	6
18-23 MOS.	2	2	4	1	1	2	3	3	6
2	2	-	2	2	2	4	4	2	6
3	1	-	1	1	3	4	2	3	5
4	1	-	1	1	-	1	2	-	2
5-9	1	1	2	-	-	-	1	1	2
10-14	1	-	1	-	-	-	1	-	1
15-19	-	-	-	-	-	-	-	-	-
20-40	1	1	2	-	2	2	1	3	4
40+	-	2	2	-	-	-	-	2	2

1/ ONSET OF ILLNESS ASSOCIATED WITH BACTEREMIA AND/OR MENINGITIS DURING 1989

TABLE 6-16. REPORTED CASES OF INVASIVE HAEMOPHILUS INFLUENZAE DISEASE 1/ AND INCIDENCE RATES PER 100,000 POPULATION BY AGE GROUP AND SEX, OREGON, 1989

AGE IN YEARS	MALE		FEMALE		TOTAL	
	CASES	RATE	CASES	RATE	CASES	RATE
TOTAL	35	2.6	32	2.2	67	2.4
<5	32	32.1	26	27.3	58	29.8
5-9	1	0.9	1	1.0	2	1.0
10-14	1	1.0	-	0.0	1	0.5
15-19	-	0.0	-	0.0	-	0.0
20-30	1	0.2	3	0.7	4	0.4
40+	-	0.0	2	0.3	2	0.2

1/ ONSET OF ILLNESS ASSOCIATED WITH BACTEREMIA AND/OR MENINGITIS DURING 1989

TABLE 6-17. REPORTED CASES OF MEASLES AND INCIDENCE RATES PER 100,000 POPULATION BY AGE GROUP, OREGON, 1989

AGE IN YEARS	NUMBER OF CASES	INCIDENCE RATE
TOTAL	82	2.9
<5	23	11.8
5-9	6	2.9
10-14	8	4.2
15-19	30	15.0
20-24	6	2.8
25-29	4	1.8
30-39	3	0.6
40-49	2	0.5
50+	-	0.0

TABLE 6-18. REPORTED CASES OF MEASLES BY AGE GROUP AND SEX, OREGON, 1989

AGE IN YEARS	MALE	FEMALE	TOTAL
TOTAL	41	41	82
<1	5	1	6
1	3	5	8
2	-	4	4
3	1	1	2
4	1	2	3
5-9	5	1	6
10-14	4	4	8
15-19	14	16	30
20-24	2	4	6
25-29	3	1	4
30-39	2	1	3
40-49	1	1	1
50+	-	-	-

TABLE 6-19. REPORTED CASES OF MEASLES BY COUNTY AND MONTH OF ONSET OF ILLNESS, OREGON, 1989

COUNTY	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
TOTAL	6	15	20	18	2	-	1	13	7	82
COOS	-	-	-	1	1	-	-	-	-	2
JACKSON	1	14	15	6	-	-	-	-	-	36
JOSEPHINE	3	-	-	-	-	-	-	-	-	3
LANE	2	-	-	-	-	-	-	-	-	2
MARION	-	-	-	-	-	-	1	12	6	19
MULTNOMAH	-	-	3	3	1	-	-	-	-	7
POLK	-	-	-	-	-	-	-	1	-	1
TILLAMOOK	-	1	-	-	-	-	-	-	-	1
WASHINGTON	-	-	2	8	-	-	-	-	1	11

TABLE 6-20. CLASSIFICATION OF MEASLES CASES, OREGON, 1987 AND 1989

CLASSIFICATION	1987		1989	
	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL	132	100.0	82	100.0
UNVACCINATED	70	53.0	37	45.1
VACCINE INDICATED	45	34.1	20	24.4
VACCINE NOT INDICATED	17	12.9	13	15.9
<15 MOS. OF AGE	8	6.1	9	11.0
BORN BEFORE 1957	8	6.1	3	3.7
LAB IMMUNE/PMD DX	1	0.8	-	0.0
MEDICAL EXEMPTION	-	0.0	1	1.2
OTHER	8	6.1	4	4.9
RELIGIOUS EXEMPTION	8	6.1	4	4.9
NON-U.S. CITIZEN	-	0.0	-	0.0
VACCINATED	57	43.2	45	54.9
APPROPRIATELY	25	18.9	17	20.7
DUE TO EXPOSURE	3	2.3	-	0.0
<12 MOS. OF AGE	3	2.3	1	1.2
12-14 MOS. OF AGE	23	17.4	18	22.0
INCOMPLETE INFO	3	2.3	9	11.0
UNKNOWN	5	3.8	-	-

SUICIDE ATTEMPTS

Adolescent Suicide Attempts

INTRODUCTION. During 1989, Oregon children were reported to have attempted suicide 624 times. Suicide is second only to unintentional injuries as the leading cause of death among adolescents.

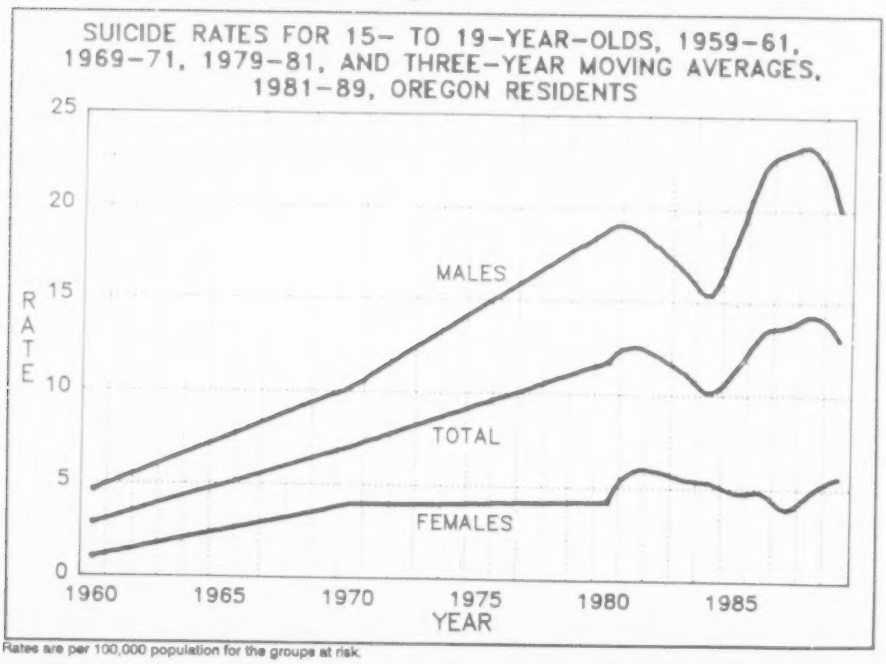
Suicide by adolescents has caused increasing concern both nationally and in Oregon. In 1987, the Oregon legislature created a law mandating that hospitals treating a child age 17 or younger for injuries resulting from a suicide attempt, report the attempt to the Oregon Health Division. The law became effective in January 1988; it also requires that the patient be referred for counseling.

Because the surveillance system identifies only attempters with injuries severe enough to require emergency care, the number of events reported must be considered a minimum. Additionally not all attempts that should have been reported by hospitals actually were. The magnitude of the undercount is, unfortunately, unknown. The Technical Notes section describes the methodology and limitations of the data in this section.

HISTORICAL TRENDS. During past decades, the suicide rate among teenagers has risen dramatically. Figure 7-1 illustrates the variable nature of suicide rates for 15- to 19-year-old Oregonians during the 1980s. Although the suicide rate at the end of the decade was higher than at the beginning, the rate of increase was less during the 1980s than during the 1970s. Nevertheless, 15- to 19-year-old Oregonians were 4.6 times more likely to commit suicide during the last three years of the 1980s than were their counterparts during 1959-1961. The magnitude of the increase for 15-

During the 1980s, 290 Oregon teens and preteens committed suicide.

Figure 7-1.



Rates are per 100,000 population for the groups at risk.

Note: Because population data by age and sex are not available for years prior to 1979, rates for the 1960s and 1970s, other than those based on decennial census data, have been interpolated. Therefore variations *within* ten-year periods prior to 1980 are not apparent.

to 19-year-olds has been larger for females than males but males remain more likely to commit suicide. Death rates increased from 4.6 to 19.9 per 100,000 for males and 1.0 to 5.6 for females between 1959-1961 and 1987-1989. These rates are, however, based on relatively few events and therefore subject to considerable random statistical variation. This is especially true of the rates for females. Table 7-1 lists the number of suicides committed by Oregon teens since 1979.

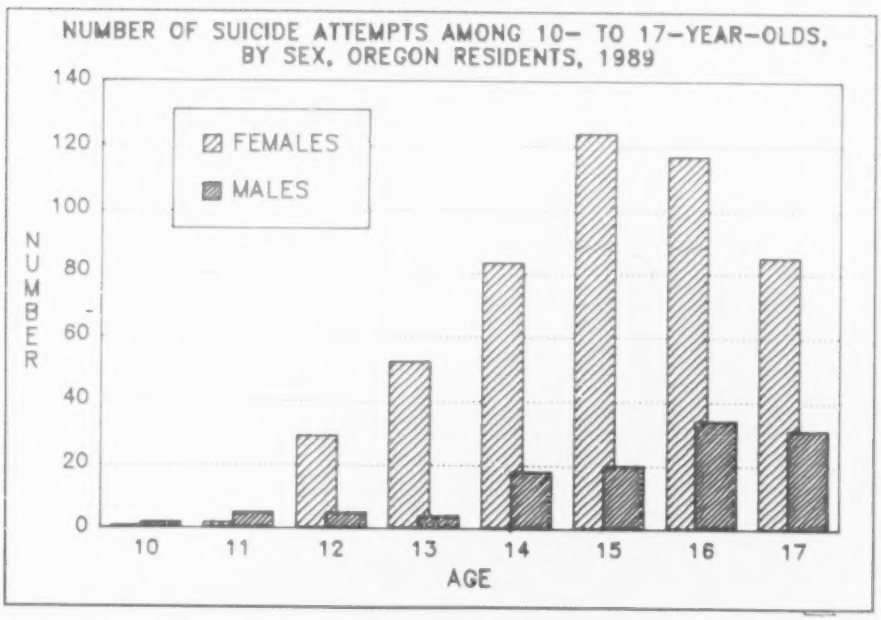
Number of Attempts, 1989[1]		
Age	Male	Female
7	0	1
8	0	0
9	0	1
10	2	1
11	5	2
12	5	29
13	4	52
14	18	83
15	20	124
16	34	117
17	31	85

1. Five reports lacked sex or age data.

AGE. The youngest child to attempt suicide was just 7 years old. This young girl ingested tranquilizers in response to family discord. Her attempt was one of 46 reported to have been made by preteens (i.e., less than 13 years old). Fifteen- and 16-year-olds accounted for nearly one-half (47.6 percent) of all attempts among Oregon minors (Figure 7-2). Preteens, however, were more often reported to have attempted suicide during 1989 than during 1988. Nearly all of the increase occurred among boys; their rate more than doubled (up 111.1 percent) while that for young girls was essentially unchanged (up 2.4 percent).

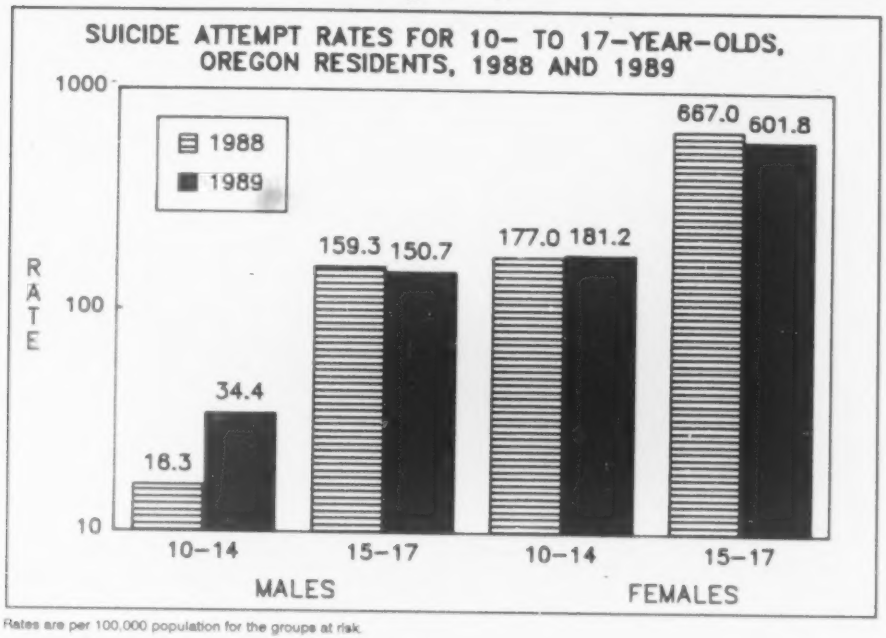
SEX. Girls are far more likely to attempt suicide than are boys (Table 7-2). Four-fifths (80.0 percent) of all attempts were by girls. This apparent dichotomy may reflect, in part, an increased likelihood of girls being taken to a hospital after an attempt compared to boys—regardless of the seriousness of their injuries. Girls are more likely to be treated and released, 38.3 percent compared to 31.7 percent of boys. Furthermore, these attempts are far less likely to result in death than are those by boys.[1] Nonetheless, girls do attempt suicide more frequently than boys and they do so at younger ages (Figure 7-3). Six-tenths (59.2 percent) of all attempts by girls occur before age 16 compared to 45.4 percent for boys.

Figure 7-2.



1. *Oregon Vital Statistics Report 1988.* Oregon Center for Health Statistics. Health Division. Oregon Department of Human Resources. December 1989.

Figure 7-3.



Rates are per 100,000 population for the groups at risk.

RACE. White adolescents account for most (86.7 percent) of the suicide attempts—they also account for most of the adolescent population. Because population counts by race and age are made only in census years (1980 is the most recent available), it is not possible to calculate attempt rates by race.

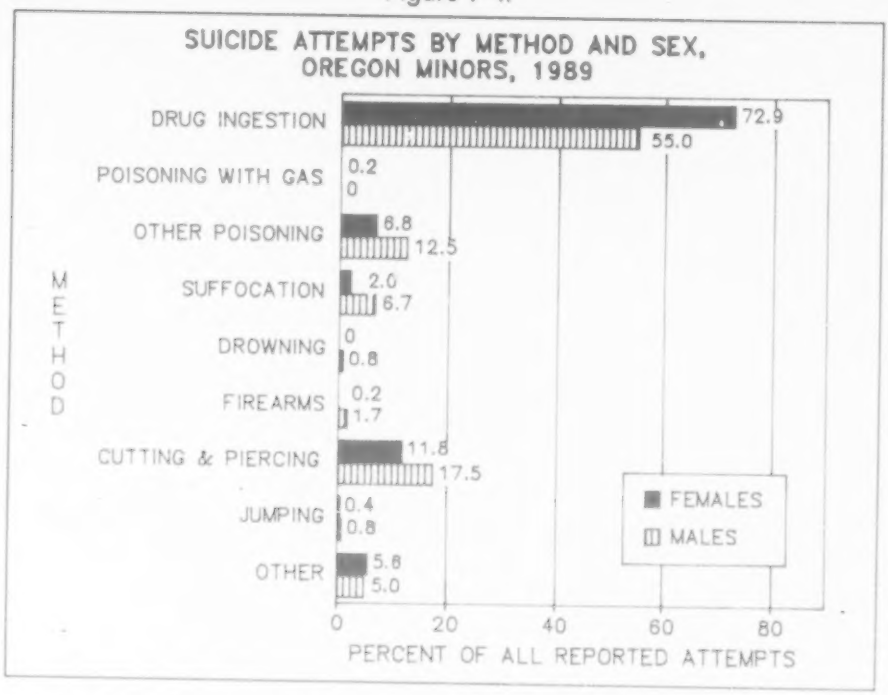
Number of Attempts		
Race	1988	1989
White	549	541
African American	23	15
Indian	6	7
Chinese	0	0
Japanese	0	0
Hawaiian	0	0
Filipino	0	1
Other Asian and Pacific Islanders	12	9
Hispanic	30	24

NUMBER OF ATTEMPTS. A reported three-tenths (29.3 percent) of all attempts were by adolescents who had made prior attempts during the previous five years. This is a minimal figure since the prior attempt status was unknown in 25.3 percent of the cases. There is little difference between the sexes in the likelihood of previous attempts (Table 7-3).

METHOD. Many methods were used by adolescents in their attempts, but one, ingestion of drugs, accounted for the vast majority. Drugs were used in seven of every ten (69.1 percent) attempts. Of the 431 attempts involving drugs, analgesics accounted for nearly one-half (48.3 percent); aspirin and acetaminophen were most commonly used. Most (159) of the other attempts involving drugs were of combinations of drugs or of drugs with alcohol. Cutting and piercing injuries were the second most common method of attempt, accounting for 12.8 percent of the cases; nearly all of these were lacerations of the wrists. The category "other" in Table 7-4 includes mostly attempts by multiple methods. The majority involved poisoning, usually with drugs, and laceration of the wrists.

The method chosen varies with the sex and age of the attempter (Tables 7-4 and 7-5). Nearly three-fourths (72.9 percent) of the attempts by girls involved drugs compared to a little over half (55.0 percent) of those by boys. Boys were more likely to choose suffocation and hanging; 6.7 percent of their attempts were by this method compared to 2.0 percent of the attempts by girls. They also were more likely to poison themselves with solids or

Figure 7-4.



liquids other than drugs, and to inflict cutting or piercing wounds than were girls (Figure 7-4).

Three of every ten Oregon minors attempting suicide had made previous attempts.

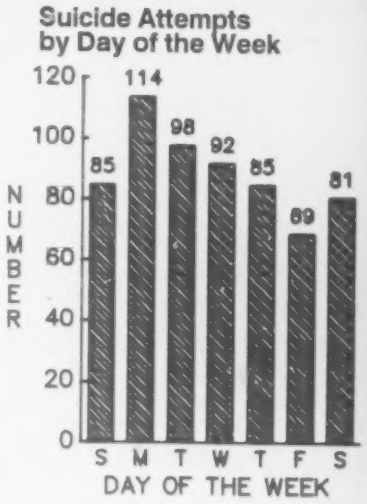
Adolescents making their first attempt were more likely to ingest drugs compared to those making a repeat attempt; 76.3 percent of all first attempts involved drugs compared to 57.9 percent of repeat attempts (Table 7-6). The frequency of cutting and piercing is more than twice as high among repeat attempters compared to first attempters, 21.3 and 8.8 percent, respectively. Although hanging is seldom used, it was chosen 3.5 times as often among adolescents making repeat attempts than those making their first attempts.

Seven-tenths of the attempts involved ingestion of drugs, but these attempts only infrequently result in death.[1] Conversely, about seven-tenths of all attempts made by adolescents that result in death are made with guns.[1]

PLACE OF ATTEMPT. Most (62.7 percent) of the attempts were made in the adolescent's own home while 5.4 percent were made in another's home. Girls were more likely than boys to make the attempt at home (Table 7-7). Schools were the site of 4.5 percent of the attempts. Attempters living with a parent and step-parent were more likely to make the attempt at home compared to those in single-parent families, or those living with both natural parents. Because of the large number of attempts in which the place of attempt was not stated (17.3 percent) the above percentages are somewhat lower than actuality.

MONTH AND DAY OF ATTEMPT. During 1988, Spring (March, April, May) appeared to be the season of greatest risk, accounting for 30.4 percent of all attempts and summer the least, with 18.7 percent of the

attempts. However, this seasonal pattern did not continue into 1989. Instead of spring, suicide attempts were most frequently reported in January, February, and October. Nonetheless, the summer school vacation months continued to be the season of the lowest risk. Only 16.5 percent of the attempts occurred during June-August. Suicide attempts occurred with the least frequency on Fridays and Saturdays. Suicidal behavior was most pronounced on Mondays, Tuesdays and Wednesdays.



PATIENT STATUS. Over one-half (59.8 percent) of all reported attempts were of such seriousness that the attempter was hospitalized; this figure includes attempters who were transferred to another institution for specialized care. Of these inpatients, 12.1 percent were transferred to another facility. Four attempts were reported among adolescents who were already inpatients (Table 7-8).

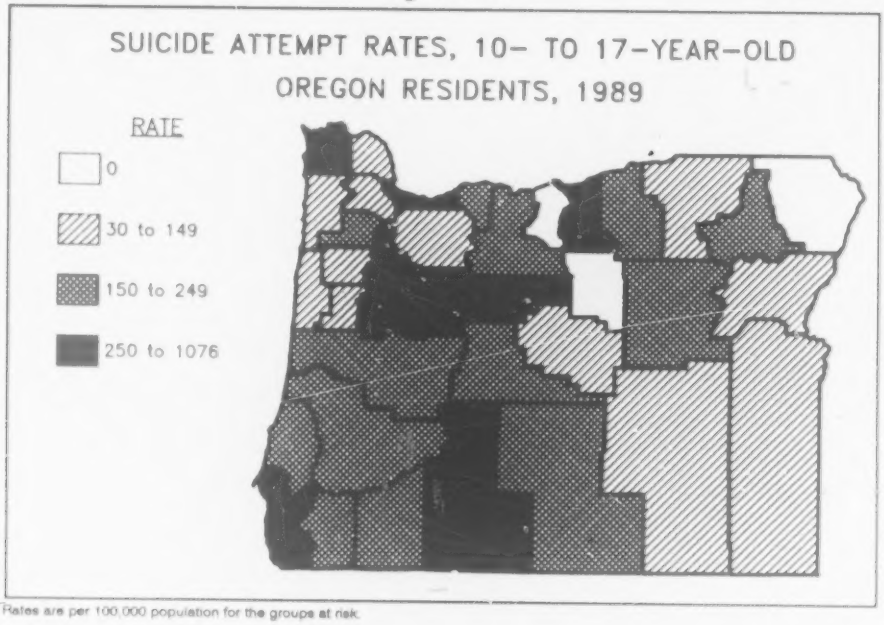
Some suicide attempt methods are more likely than others to result in hospitalization. Of the categories with at least five events, attempts by "other" means most often (82.4 percent) resulted in hospitalization (Table 7-9). As noted previously, most of these involved poisoning in combination with lacerations. Also included in this category are other potentially lethal methods such as running in front of traffic and crashing automobiles. Ranking second was poisoning with a substance other than a drug. Poisoning with a drug was least likely to result in hospitalization. Some hospitalizations, however, may be a consequence of the attempters' mental condition rather than the seriousness of their injuries.

LIVING SITUATION. A plurality (29.6 percent) of the attempts were made by adolescents living with both natural parents while 12.0 percent were by minors living with their mother (Table 7-10). Ranking third and fourth were adolescents living with a parent and stepparent (12.0 percent), and those under government supervision, such as the Children's Services Division (9.5 percent). However, in 11.2 percent of the cases the family situation was unknown. Because denominator data are not available, attempt rates by living situation can not be calculated.

GEOGRAPHIC DISTRIBUTION. Although the average suicide attempt rate for the state was 205.5 per 100,000 10- to 17-year-olds, the rates for individual counties are highly variable. Figure 7-5 illustrates the disparity in attempt rates throughout the state. In three counties no attempts were reported (Table 7-11); all are east of the Cascade Range and have small populations. However, some counties with larger populations reported few attempts, suggesting that not all hospitals are complying with the law, or that adolescent attempters in rural areas may be treated in clinics or doctors' offices (in which case the attempt is not required to be reported).

Adolescents living east of the Cascades were less likely to select poisoning as their method of attempt compared to those living west of the mountains. (It was, nevertheless, the most common method chosen.) Adolescent residents of central and eastern Oregon were over twice as likely to make the attempt with cutting and piercing injuries compared to

Figure 7-5.

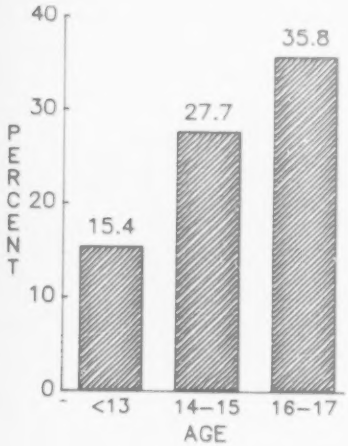


Rates are per 100,000 population for the groups at risk.

their counterparts living elsewhere in Oregon (Table 7-12).

RECENT PERSONAL EVENTS. Beginning in 1989 an additional question regarding recent personal events was added to the attempt report form. Family discord was the preeminent cause of attempted suicide. Nearly six of every ten (57.9 percent) Oregon minors said this prompted their attempts (Table 7-13).[2] Children who attempted suicide and who were living with a parent and stepparent were more likely to report family discord; 70.5 percent did so compared to 49.2 percent of those living with both natural parents. Whites and Other Asian and Pacific Islanders were reportedly less apt to experience family discord than other races.

Attempts Due to an Argument with Boyfriend/Girlfriend, by Age



Ranking second (32.5 percent) was an argument or break-up with the attempter's boyfriend or girlfriend. Older attempters were more likely to give this as a reason. By region, adolescents living east of the Cascade Range were one-third again more likely than their counterparts to the west to say that an argument with their girlfriend or boyfriend was the reason for their attempt, 41.1 percent compared to 31.1 percent.

School-related problems (e.g. performance, truancy) were the third most frequently cited reason. One of every six (16.2 percent) attempters mentioned this as a cause. Males and 13- to 14-year-olds were more apt to list school problems than females or those in other age groups. Tri-county attempters were over twice as likely to give this as a reason than attempters living east of the Cascades, 21.9 percent and 8.9 percent, respectively.

About one in eleven (9.4 percent) of the attempts were linked to substance abuse. One attempt (included here) involved a 16-year-old girl

2. The reasons for suicide attempts were reported for only 62.5 percent of the attempts. The percentages here include only attempts for which the reasons were known.

who was not specified as abusing drugs but who stated a gang wanted to kill her because of a drug deal she was involved in and that she preferred to kill herself than be killed by gang members. Males were nearly twice as apt to mention substance abuse; 15.0 percent did so compared to 8.0 percent of females (Figure 7-6). Attempters in this category were far more likely to be admitted as an in-patient (94.4 percent) than others. Moreover, they ranked second most likely to have made prior suicide attempts. About two-thirds (67.7 percent) had done so. Treatment for substance abuse had been sought previously by some of the attempters, but was reportedly unavailable.

Physically abused children are more likely to have made prior suicide attempts than those making attempts for any other reason.

One of every 18 (5.6 percent) attempters reported being the victims of sexual abuse or rape. All were females. Nearly two-thirds (64.7 percent) of these girls had made prior suicide attempts. Girls not yet in their teens reported rape or sexual abuse three times more frequently than did their older counterparts. In many cases the girls were reportedly abused by their fathers or stepfathers.

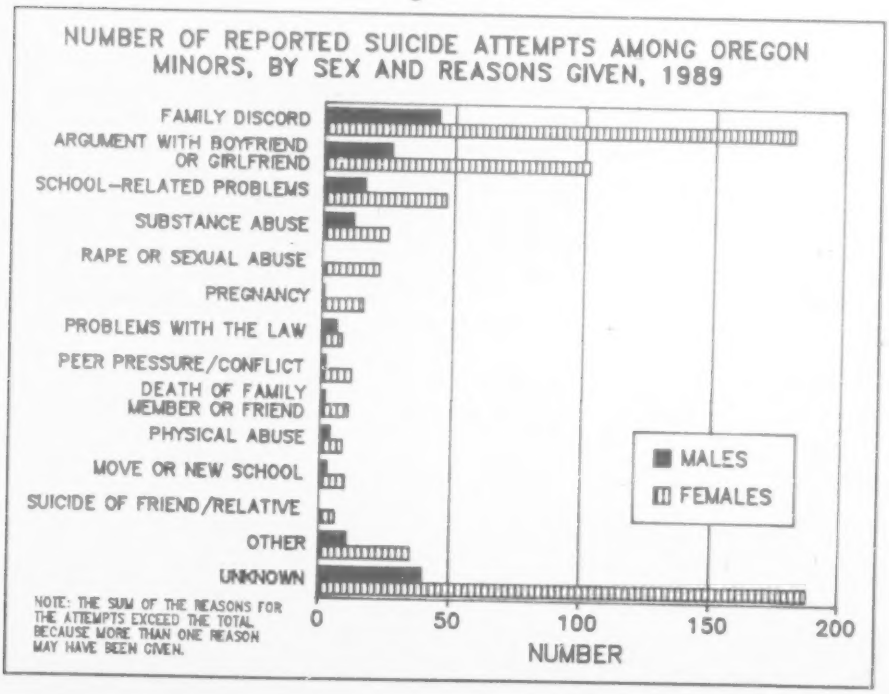
Concern about pregnancy prompted 4.3 percent of the attempts. Most of the attempts were by girls 15 or older.

Encounters with the legal system were mentioned by 3.6 percent of the attempters. These ranged from minor traffic violations to arrests involving drugs. Males and 15- to 17-year-olds were more apt to attempt suicide for this reason.

Peer pressure or conflict was reported by 3.6 percent of the attempters. This was given as a reason by females more often than by males.

One in thirty (3.3 percent) of the attempts were made in response to the death of a family member or friend. The attempts made by these adolescents were more likely to result in hospitalization than any other reason

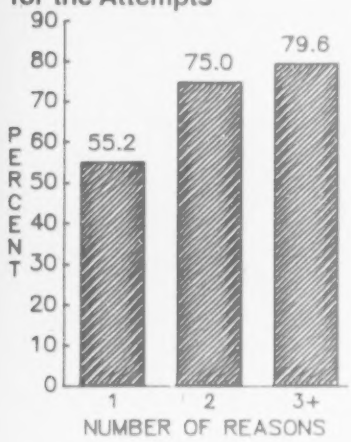
Figure 7-6.



except substance abuse; 92.3 percent were admitted as in-patients.

Physical abuse was reported by 3.3 percent of the attempters and was more common among youngsters under 13 years of age. Physically abused children were more likely to have made prior suicide attempts than those making attempts for any other reason; 81.8 percent had done so. Physical abuse was reported by 6.3 percent of the attempters living in the tri-county area but only 1.5 percent of those living elsewhere in western Oregon and by none of those living east of the Cascades. These percentages are, however, based on relatively few events.

Percentage of Attempts Resulting in Hospitalization, by Number of Reasons for the Attempts



A move or attendance at a new school was given as the reason by 3.3 percent of the attempters. Children under 13 years of age reported this as the cause of their attempt about three times more frequently than did 15- to 17-year-olds, 7.7 percent and 2.7 percent, respectively.

Finally, a suicide or attempted suicide by a family member or friend prompted 1.5 percent of the attempts. A young girl, for example, poisoned herself after three other family members had killed themselves; additionally her father was chronically ill and her mother mentally ill.

Two of every five (40.1 percent) attempters gave more than one reason for their suicide attempt. The proportion reporting multiple reasons was essentially the same for both sexes and all age groups. However, adolescents living in the tri-county area were more apt to report multiple problems than those living elsewhere in the state. The percentage reporting two or more problems by region were: tri-county, 41.3; other western counties, 32.3; counties east of the Cascades, 30.9. Perhaps the most striking differences between attempters with one reason compared to those with multiple reasons is the likelihood of hospitalization. The more reasons listed, the greater the likelihood that hospitalization was required. Lack of social supports is a common thread among children attempting suicide, especially those giving multiple reasons. One 16-year-old girl, for example, reported that: her sister had recently died from cancer; that she and her boyfriend had broken up; that her mother was unsupportive and aggressive; and that her father was manic depressive. Others had been evicted by their parents or were homeless for other reasons.

TABLE 7-1. NUMBER OF SUICIDES AMONG OREGON TEENS AND PRETEENS BY AGE AND SEX, 1979-1989

YEAR AND SEX	AGE												
	10-19	10-17	15-19	10	11	12	13	14	15	16	17	18	19
1979 Total	22	10	21	-	-	-	-	1	2	4	3	5	7
Male	19	9	19	-	-	-	-	-	2	4	3	4	6
Female	3	1	2	-	-	-	-	1	-	-	-	1	1
1980 Total	35	18	32	1	-	-	-	2	3	6	6	10	7
Male	31	17	28	1	-	-	-	2	3	6	5	8	6
Female	4	1	4	-	-	-	-	-	-	-	1	2	1
1981 Total	31	13	29	-	-	1	-	1	3	3	5	12	6
Male	22	8	21	-	-	1	-	-	2	1	4	10	4
Female	9	5	8	-	-	-	-	1	1	2	1	2	2
1982 Total	26	14	23	-	-	-	-	3	4	6	1	4	8
Male	20	12	17	-	-	-	-	3	3	5	1	4	4
Female	6	2	6	-	-	-	-	-	1	1	-	-	4
1983 Total	19	6	19	-	-	-	-	-	-	2	4	1	12
Male	16	6	16	-	-	-	-	-	-	2	4	1	9
Female	3	-	3	-	-	-	-	-	-	-	-	-	3
1984 Total	25	12	21	-	1	-	1	2	3	1	4	6	7
Male	18	8	14	-	1	-	1	2	1	-	3	4	6
Female	7	4	7	-	-	-	-	-	2	1	1	2	1
1985 Total	36	20	29	-	2	-	3	2	3	4	6	5	11
Male	29	14	25	-	2	-	1	1	3	3	4	5	10
Female	7	6	4	-	-	-	2	1	-	1	2	-	1
1986 Total	34	19	30	-	-	1	1	2	1	5	9	8	7
Male	30	18	27	-	-	-	1	2	1	5	9	6	6
Female	4	1	3	-	-	1	-	-	-	-	-	2	1
1987 Total	23	9	22	-	-	-	-	1	3	3	2	10	4
Male	19	6	18	-	-	-	-	1	2	2	1	9	4
Female	4	3	4	-	-	-	-	-	1	1	1	1	-
1988 Total	35	16	32	-	-	2	-	1	1	3	9	9	10
Male	28	12	25	-	-	2	-	1	1	2	6	7	9
Female	7	4	7	-	-	-	-	-	-	1	3	2	1
1989 Total	26	16	22	-	-	1	1	2	2	3	7	3	7
Male	21	13	17	-	-	1	1	2	2	3	4	2	6
Female	5	3	5	-	-	-	-	-	-	-	3	1	1

TABLE 7-2. SUICIDE ATTEMPTS BY SEX AND AGE, OREGON MINORS, 1989

SEX	TOTAL	AGE			
		<=12	13-14	15-17	N.S.
TOTAL.....	624	46	157	416	5
MALE.....	120	12	22	85	1
FEMALE.....	499	34	135	326	4
N.S.....	5	-	-	5	-
ROW PERCENT					
TOTAL.....	100.0%	7.4%	25.2%	66.7%	.8%
MALE.....	100.0	10.0	18.3	70.8	.8
FEMALE.....	100.0	6.8	27.1	65.3	.8
N.S.....	100.0	-	-	100.0	-
COLUMN PERCENT					
TOTAL.....	100.0	100.0	100.0	100.0	100.0
MALE.....	19.2	26.1	14.0	20.4	20.0
FEMALE.....	80.0	73.9	86.0	78.4	80.0
N.S.....	.8	-	-	1.2	-

TABLE 7-3. SUICIDE ATTEMPTS BY SEX AND NUMBER OF ATTEMPTS DURING THE PREVIOUS FIVE YEARS, OREGON MINORS, 1989

SEX	TOTAL	PREVIOUS ATTEMPTS		
		NO PREVIOUS ATTEMPTS	PREVIOUS ATTEMPTS	NOT STATED
TOTAL.....	624	283	183	158
MALE.....	120	50	34	36
FEMALE.....	499	233	148	118
N.S.....	5	-	1	4
ROW PERCENT				
TOTAL.....	100.0%	45.4%	29.3%	25.3%
MALE.....	100.0	41.7	28.3	30.0
FEMALE.....	100.0	46.7	29.7	23.6
N.S.....	100.0	-	20.0	80.0
COLUMN PERCENT				
TOTAL.....	100.0	100.0	100.0	100.0
MALE.....	19.2	17.7	18.6	22.8
FEMALE.....	80.0	82.3	80.9	74.7
N.S.....	.8	-	.5	2.5

TABLE 7-4. SUICIDE ATTEMPTS BY METHOD AND SEX, OREGON MINORS, 1989

METHOD OF ATTEMPT	TOTAL	SEX		
		MALE	FEMALE	N.S.
TOTAL	624	120	499	5
POISONING, DRUGS	431	66	364	1
POISONING, SOLIDS & LIQUIDS	53	15	34	4
POISONING, GAS	1	-	1	-
SUFFOCATION AND HANGING	18	8	10	-
DROWNING	1	1	-	-
FIREARMS	3	2	1	-
CUTTING AND PIERCING	80	21	59	-
JUMPING FROM A HIGH PLACE	3	1	2	-
OTHER	34	6	28	-
ROW PERCENT				
TOTAL	100.0%	19.2%	80.0%	.8%
POISONING, DRUGS	100.0	15.3	84.5	.2
POISONING, SOLIDS & LIQUIDS	100.0	28.3	64.2	7.5
POISONING, GAS	100.0	-	100.0	-
SUFFOCATION AND HANGING	100.0	44.4	55.6	-
DROWNING	100.0	100.0	-	-
FIREARMS	100.0	66.7	33.3	-
CUTTING AND PIERCING	100.0	26.2	73.7	-
JUMPING FROM A HIGH PLACE	100.0	33.3	66.7	-
OTHER	100.0	17.6	82.4	-
COLUMN PERCENT				
TOTAL	100.0	100.0	100.0	100.0
POISONING, DRUGS	69.1	55.0	72.9	20.0
POISONING, SOLIDS & LIQUIDS	8.5	12.5	6.8	80.0
POISONING, GAS	.2	-	.2	-
SUFFOCATION AND HANGING	2.9	6.7	2.0	-
DROWNING	.2	.8	-	-
FIREARMS	.5	1.7	.2	-
CUTTING AND PIERCING	12.8	17.5	11.8	-
JUMPING FROM A HIGH PLACE	.5	.8	.4	-
OTHER	5.4	5.0	5.6	-

TABLE 7-5. SUICIDE ATTEMPTS BY METHOD AND AGE, OREGON MINORS, 1989

METHOD OF ATTEMPT	TOTAL	AGE			
		<=12	13-14	15-17	N.S.
TOTAL	624	46	157	416	5
POISONING, DRUGS	431	32	102	293	4
POISONING, SOLIDS & LIQUIDS	53	4	15	34	-
POISONING, GAS	1	-	-	1	-
SUFFOCATION AND HANGING	18	4	4	10	-
DROWNING	1	-	-	1	-
FIREARMS	3	-	1	2	-
CUTTING AND PIERCING	80	5	23	52	-
JUMPING FROM A HIGH PLACE	3	-	1	2	-
OTHER	34	1	11	21	1
ROW PERCENT					
TOTAL	100.0%	7.4%	25.2%	66.7%	.8%
POISONING, DRUGS	100.0	7.4	23.7	68.0	.9
POISONING, SOLIDS & LIQUIDS	100.0	7.5	28.3	64.2	-
POISONING, GAS	100.0	-	-	100.0	-
SUFFOCATION AND HANGING	100.0	22.2	22.2	55.6	-
DROWNING	100.0	-	-	100.0	-
FIREARMS	100.0	-	33.3	66.7	-
CUTTING AND PIERCING	100.0	6.3	28.7	65.0	-
JUMPING FROM A HIGH PLACE	100.0	-	33.3	66.7	-
OTHER	100.0	2.9	32.4	61.8	2.9
COLUMN PERCENT					
TOTAL	100.0	100.0	100.0	100.0	100.0
POISONING, DRUGS	69.1	69.6	65.0	70.4	80.0
POISONING, SOLIDS & LIQUIDS	8.5	8.7	9.6	8.2	-
POISONING, GAS	.2	-	-	.2	-
SUFFOCATION AND HANGING	2.9	8.7	2.5	2.4	-
DROWNING	.2	-	-	.2	-
FIREARMS	.5	-	.6	.5	-
CUTTING AND PIERCING	12.8	10.9	14.6	12.5	-
JUMPING FROM A HIGH PLACE	.5	-	.6	.5	-
OTHER	5.4	2.2	7.0	5.0	20.0

TABLE 7-6. SUICIDE ATTEMPTS BY METHOD AND ATTEMPTS DURING THE PREVIOUS FIVE YEARS, OREGON MINORS, 1989

METHOD OF ATTEMPT	TOTAL	PREVIOUS ATTEMPTS		
		NO PREVIOUS ATTEMPTS	PREVIOUS ATTEMPTS	NOT STATED
TOTAL	624	283	183	158
POISONING, DRUGS	431	216	106	109
POISONING, SOLIDS & LIQUIDS	53	27	11	15
POISONING, GAS	1	-	1	-
SUFFOCATION AND HANGING	18	4	9	5
DROWNING	1	-	1	-
FIREARMS	3	-	1	2
CUTTING AND PIERCING	80	25	39	16
JUMPING FROM A HIGH PLACE	3	-	3	-
OTHER	34	11	12	11
ROW PERCENT				
TOTAL	100.0%	45.4%	29.3%	25.3%
POISONING, DRUGS	100.0	50.1	24.6	25.3
POISONING, SOLIDS & LIQUIDS	100.0	50.9	20.8	28.3
POISONING, GAS	100.0	-	100.0	-
SUFFOCATION AND HANGING	100.0	22.2	50.0	27.8
DROWNING	100.0	-	100.0	-
FIREARMS	100.0	-	33.3	66.7
CUTTING AND PIERCING	100.0	31.3	48.7	20.0
JUMPING FROM A HIGH PLACE	100.0	-	100.0	-
OTHER	100.0	32.4	35.3	32.4
COLUMN PERCENT				
TOTAL	100.0	100.0	100.0	100.0
POISONING, DRUGS	69.1	76.3	57.9	69.0
POISONING, SOLIDS & LIQUIDS	8.5	9.5	6.0	9.5
POISONING, GAS	.2	-	.5	-
SUFFOCATION AND HANGING	2.9	1.4	4.9	3.2
DROWNING	.2	-	.5	-
FIREARMS	.5	-	.5	1.3
CUTTING AND PIERCING	12.8	8.8	21.3	10.1
JUMPING FROM A HIGH PLACE	.5	-	1.6	-
OTHER	5.4	3.9	6.6	7.0

TABLE 7-7. SUICIDE ATTEMPTS BY SEX AND PLACE OF ATTEMPT, OREGON MINORS, 1989

SEX	TOTAL	PLACE OF ATTEMPT									
		OWN HOME	ANOTHER'S HOME	SCHOOL	JAIL	OTHER INSTI-TUTION	PUBLIC PLACE	FOSTER HOME	STREET	OTHER	N.S.
TOTAL.....	624	391	34	28	-	21	10	15	9	8	108
MALE.....	120	66	11	4	-	4	4	4	6	2	19
FEMALE.....	499	323	23	24	-	17	6	11	3	6	86
N.S.....	5	2	-	-	-	-	-	-	-	-	3
ROW PERCENT											
TOTAL.....	100.0%	62.7%	5.4%	4.5%	-	3.4%	1.6%	2.4%	1.4%	1.3%	17.3%
MALE.....	100.0	55.0	9.2	3.3	-	3.3	3.3	3.3	5.0	1.7	15.8
FEMALE.....	100.0	64.7	4.6	4.8	-	3.4	1.2	2.2	.6	1.2	17.2
N.S.....	100.0	40.0	-	-	-	-	-	-	-	-	60.0
COLUMN PERCENT											
TOTAL.....	100.0	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	100.0	100.0
MALE.....	19.2	16.9	32.4	14.3	-	19.0	40.0	26.7	66.7	25.0	17.6
FEMALE.....	80.0	82.6	67.6	85.7	-	81.0	60.0	73.3	33.3	75.0	79.6
N.S.....	.8	.5	-	-	-	-	-	-	-	-	2.8

TABLE 7-8. SUICIDE ATTEMPTS BY SEX AND PATIENT STATUS, OREGON MINORS, 1989

SEX	TOTAL	PATIENT STATUS				
		INPATIENT	OUTPATIENT	TRANS-FERRED	ALREADY AN INPATIENT	NOT STATED
TOTAL.....	624	328	232	45	4	15
MALE.....	120	70	38	9	-	3
FEMALE.....	499	256	191	36	4	12
N.S.....	5	2	3	-	-	-
ROW PERCENT						
TOTAL.....	100.0%	52.6%	37.2%	7.2%	.6%	2.4%
MALE.....	100.0	58.3	31.7	7.5	-	2.5
FEMALE.....	100.0	51.3	38.3	7.2	.8	2.4
N.S.....	100.0	40.0	60.0	-	-	-
COLUMN PERCENT						
TOTAL.....	100.0	100.0	100.0	100.0	100.0	100.0
MALE.....	19.2	21.3	16.4	20.0	-	20.0
FEMALE.....	80.0	78.0	82.3	80.0	100.0	80.0
N.S.....	.8	.6	1.3	-	-	-

TABLE 7-9. SUICIDE ATTEMPTS BY METHOD AND PATIENT STATUS, OREGON MINORS, 1989

METHOD OF ATTEMPT	TOTAL	PATIENT STATUS				
		INPATIENT	OUTPATIENT	TRANS-FERRED	ALREADY AN INPATIENT	NOT STATED
TOTAL	624	328	232	45	4	15
POISONING, DRUGS	431	214	181	24	-	12
POISONING, SOLIDS & LIQUIDS	53	36	14	3	-	-
POISONING, GAS	1	1	-	-	-	-
SUFFOCATION AND HANGING	18	7	3	5	3	-
DROWNING	1	1	-	-	-	-
FIREARMS	3	2	-	1	-	-
CUTTING AND PIERCING	80	40	28	8	1	3
JUMPING FROM A HIGH PLACE	3	3	-	-	-	-
OTHER	34	24	6	4	-	-
ROW PERCENT						
TOTAL	100.0%	52.6%	37.2%	7.2%	.6%	2.4%
POISONING, DRUGS	100.0	49.7	42.0	5.6	-	2.8
POISONING, SOLIDS & LIQUIDS	100.0	67.9	26.4	5.7	-	-
POISONING, GAS	100.0	100.0	-	-	-	-
SUFFOCATION AND HANGING	100.0	38.9	16.7	27.8	16.7	-
DROWNING	100.0	100.0	-	-	-	-
FIREARMS	100.0	66.7	-	33.3	-	-
CUTTING AND PIERCING	100.0	50.0	35.0	10.0	1.2	3.7
JUMPING FROM A HIGH PLACE	100.0	100.0	-	-	-	-
OTHER	100.0	70.6	17.6	11.8	-	-
COLUMN PERCENT						
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0
POISONING, DRUGS	69.1	65.2	78.0	53.3	-	80.0
POISONING, SOLIDS & LIQUIDS	8.5	11.0	6.0	6.7	-	-
POISONING, GAS	.2	.3	-	-	-	-
SUFFOCATION AND HANGING	2.9	2.1	1.3	11.1	75.0	-
DROWNING	.2	.3	-	-	-	-
FIREARMS	.5	.6	-	2.2	-	-
CUTTING AND PIERCING	12.8	12.2	12.1	17.8	25.0	20.0
JUMPING FROM A HIGH PLACE	.5	.9	-	-	-	-
OTHER	5.4	7.3	2.6	8.9	-	-

TABLE 7-10. SUICIDE ATTEMPTS BY AGE AND LIVING SITUATION, OREGON MINORS, 1989

LIVING SITUATION	TOTAL	AGE			
		<=12	13-14	15-17	N.S.
TOTAL	624	46	157	416	5
BOTH PARENTS	185	9	40	134	2
FATHER ONLY	24	-	6	17	1
MOTHER ONLY	137	22	44	71	-
PARENT & STEPPARENT	75	9	19	47	-
OTHER RELATIVES	33	1	14	18	-
FRIENDS	22	-	2	20	-
FOSTER PARENTS, CSD, ETC	59	3	15	41	-
HOMELESS	10	-	5	4	1
OTHER	9	-	-	9	-
N.S	70	2	12	55	1
ROW PERCENT					
TOTAL	100.0%	7.4%	25.2%	66.7%	.8%
BOTH PARENTS	100.0	4.9	21.6	72.4	1.1
FATHER ONLY	100.0	-	25.0	70.8	4.2
MOTHER ONLY	100.0	16.1	32.1	51.8	-
PARENT & STEPPARENT	100.0	12.0	25.3	62.7	-
OTHER RELATIVES	100.0	3.0	42.4	54.5	-
FRIENDS	100.0	-	9.1	90.9	-
FOSTER PARENTS, CSD, ETC	100.0	5.1	25.4	69.5	-
HOMELESS	100.0	-	50.0	40.0	10.0
OTHER	100.0	-	-	100.0	-
N.S	100.0	2.9	17.1	78.6	1.4
COLUMN PERCENT					
TOTAL	100.0	100.0	100.0	100.0	100.0
BOTH PARENTS	29.6	19.6	25.5	32.2	40.0
FATHER ONLY	3.8	-	3.8	4.1	20.0
MOTHER ONLY	22.0	47.8	28.0	17.1	-
PARENT & STEPPARENT	12.0	19.6	12.1	11.3	-
OTHER RELATIVES	5.3	2.2	8.9	4.3	-
FRIENDS	3.5	-	1.3	4.8	-
FOSTER PARENTS, CSD, ETC	9.5	6.5	9.6	9.9	-
HOMELESS	1.6	-	3.2	1.0	20.0
OTHER	1.4	-	-	2.2	-
N.S	11.2	4.3	7.6	13.2	20.0

TABLE 7-11. SUICIDE ATTEMPTS BY SEX, AGE, AND RESIDENCE COUNTY, OREGON MINORS, 1989

COUNTY OF RESIDENCE	TOTAL	ATTEMPT RATE	AGE											
			<=12			13-14			15-17			NOT STATED		
			M	F	NS	M	F	NS	M	F	NS	M	F	NS
TOTAL	624	205.5	12	34	-	22	135	-	85	326	5	1	4	-
BAKER	1	62.9	-	-	-	1	-	-	-	-	-	-	-	-
BENTON	7	104.8	-	-	-	1	2	-	1	3	-	-	-	-
CLACKAMAS	38	113.1	-	3	-	2	10	-	5	18	-	-	-	-
CLATSOP	12	316.0	-	-	-	-	2	-	3	7	-	-	-	-
COLUMBIA	5	99.9	-	-	-	-	2	-	1	2	-	-	-	-
COOS	14	205.9	-	-	-	1	5	-	3	5	-	-	-	-
CROOK	2	122.2	-	-	-	-	-	-	-	2	-	-	-	-
CURRY	5	311.3	-	-	-	-	4	-	-	1	-	-	-	-
DESCHUTES	16	195.6	-	-	-	1	6	-	1	7	1	-	-	-
DOUGLAS	29	252.3	-	2	-	3	2	-	9	11	2	-	-	-
GILLIAM	2	1075.3	-	-	-	-	1	-	1	-	-	-	-	-
GRANT	2	206.8	-	-	-	-	1	-	-	1	-	-	-	-
HARNEY	1	98.7	1	-	-	-	-	-	-	-	-	-	-	-
HOOD RIVER	3	164.2	-	-	-	-	-	-	1	2	-	-	-	-
JACKSON	30	186.6	2	-	-	-	7	-	4	17	-	-	-	-
JEFFERSON	8	495.0	-	-	-	-	1	-	4	3	-	-	-	-
JOSEPHINE	14	215.3	-	2	-	-	2	-	2	8	-	-	-	-
KLAMATH	25	369.5	1	1	-	-	4	-	2	17	-	-	-	-
LAKE	2	225.5	-	-	-	-	-	-	-	2	-	-	-	-
LANE	64	317.1	3	3	-	2	9	-	7	40	-	-	-	-
LINCOLN	4	107.9	-	-	-	-	3	-	1	-	-	-	-	-
LINN	27	253.5	-	1	-	-	6	-	1	19	-	-	-	-
MALHEUR	4	121.5	-	-	-	-	1	-	1	2	-	-	-	-
MARION	71	286.5	-	2	-	1	18	-	12	38	-	-	-	-
MORROW	2	204.9	-	-	-	-	1	-	-	1	-	-	-	-
MULTNOMAH	132	258.8	2	17	-	5	26	-	13	65	1	1	2	-
POLK	4	76.6	-	1	-	-	2	-	-	1	-	-	-	-
SHERMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TILLAMOOK	3	136.7	-	-	-	-	1	-	-	2	-	-	-	-
UMATILLA	7	101.6	-	-	-	-	3	-	1	1	-	-	2	-
UNION	5	165.1	-	2	-	-	-	-	-	3	-	-	-	-
WALLOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WASCO	6	231.8	-	-	-	1	-	-	1	4	-	-	-	-
WASHINGTON	63	189.5	3	-	-	2	15	-	7	35	1	-	-	-
WHEELER	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YAMHILL	16	210.3	-	-	-	2	1	-	4	9	-	-	-	-

NOTE: RATES ARE PER 100,000 10- TO 17-YEAR-OLDS. BECAUSE SOME RATES ARE BASED ON FEW EVENTS AND ARE UNSTABLE, THEY SHOULD BE USED WITH CAUTION. THE JOSEPHINE COUNTY RATE INCLUDES ONE SEVEN-YEAR-OLD.

TABLE 7-12. SUICIDE ATTEMPTS BY METHOD AND REGION OF ATTEMPT, OREGON MINORS, 1989

METHOD OF ATTEMPT	TOTAL	REGION			
		TRI-COUNTY	WESTERN OREGON	EASTERN OREGON	NOT STATED
TOTAL	624	233	305	86	-
POISONING, DRUGS	431	155	219	57	-
POISONING, SOLIDS & LIQUIDS	53	25	22	6	-
POISONING, GAS	1	-	1	-	-
SUFFOCATION AND HANGING	18	3	13	2	-
DROWNING	1	1	-	-	-
FIREARMS	3	2	-	1	-
CUTTING AND PIERCING	80	31	35	14	-
JUMPING FROM A HIGH PLACE	3	1	1	1	-
OTHER	34	15	14	5	-
ROW PERCENT					
TOTAL	100.0%	37.3%	48.9%	13.8%	-
POISONING, DRUGS	100.0	36.0	50.8	13.2	-
POISONING, SOLIDS & LIQUIDS	100.0	47.2	41.5	11.3	-
POISONING, GAS	100.0	-	100.0	-	-
SUFFOCATION AND HANGING	100.0	16.7	72.2	11.1	-
DROWNING	100.0	100.0	-	-	-
FIREARMS	100.0	66.7	-	33.3	-
CUTTING AND PIERCING	100.0	38.7	43.8	17.5	-
JUMPING FROM A HIGH PLACE	100.0	33.3	33.3	33.3	-
OTHER	100.0	44.1	41.2	14.7	-
COLUMN PERCENT					
TOTAL	100.0	100.0	100.0	100.0	-
POISONING, DRUGS	69.1	66.5	71.8	66.3	-
POISONING, SOLIDS & LIQUIDS	8.5	10.7	7.2	7.0	-
POISONING, GAS	.2	-	.3	-	-
SUFFOCATION AND HANGING	2.9	1.3	4.3	2.3	-
DROWNING	.2	.4	-	-	-
FIREARMS	.5	.9	-	1.2	-
CUTTING AND PIERCING	12.8	13.3	11.5	16.3	-
JUMPING FROM A HIGH PLACE	.5	.4	.3	1.2	-
OTHER	5.4	6.4	4.6	5.8	-

TABLE 7-13. REASONS GIVEN FOR SUICIDE ATTEMPTS BY AGE AND SEX, OREGON MINORS, 1989

REASONS	TOTAL	SEX			AGE			
		MALE	FEMALE	N.S.	<=12	13-14	15-17	N.S.
TOTAL								
NUMBER	394	80	311	3	26	103	261	4
PERCENT	100.0	100.0	100.0	100	100.0	100.0	100.0	100
FAMILY DISCORD								
NUMBER	228	44	181	3	16	69	141	2
PERCENT	57.9	55.0	58.2	100	61.5	67.0	54.0	50.0
ARGUMENT WITH BOY/GIRLFRIEND								
NUMBER	128	26	102	-	4	28	94	2
PERCENT	32.5	32.5	32.8	-	15.4	27.2	36.0	50.0
SCHOOL-RELATED PROBLEMS								
NUMBER	64	16	47	1	2	24	38	-
PERCENT	16.2	20.0	15.1	33.3	7.7	23.3	14.6	-
SUBSTANCE ABUSE								
NUMBER	37	12	25	-	1	10	25	1
PERCENT	9.4	15.0	8.0	-	3.8	9.7	9.6	25.0
RAPE OR SEXUAL ABUSE								
NUMBER	22	-	22	-	4	4	14	-
PERCENT	5.6	-	7.1	-	15.4	3.9	5.4	-
PREGNANCY								
NUMBER	17	1	16	-	1	3	13	-
PERCENT	4.3	1.2	5.1	-	3.8	2.9	5.0	-
PROBLEMS WITH THE LAW								
NUMBER	14	6	8	-	-	2	12	-
PERCENT	3.6	7.5	2.6	-	-	1.9	4.6	-
PEER PRESSURE/CONFLICT								
NUMBER	14	2	12	-	1	7	6	-
PERCENT	3.6	2.5	3.9	-	3.8	6.8	2.3	-
DEATH OF FAMILY MEMBER/FRIEND								
NUMBER	13	2	11	-	1	2	10	-
PERCENT	3.3	2.5	3.5	-	3.8	1.9	3.8	-
PHYSICAL ABUSE								
NUMBER	13	4	9	-	4	3	6	-
PERCENT	3.3	5.0	2.9	-	15.4	2.9	2.3	-
MOVE OR NEW SCHOOL								
NUMBER	13	3	10	-	2	4	7	-
PERCENT	3.3	3.7	3.2	-	7.7	3.9	2.7	-
SUICIDE OF FRIEND/RELATIVE								
NUMBER	6	-	6	-	1	2	3	-
PERCENT	1.5	-	1.9	-	3.8	1.9	1.1	-
OTHER REASONS								
NUMBER	46	11	35	-	5	9	32	-
PERCENT	11.7	13.7	11.3	-	19.2	8.7	12.3	-

NOTE: REPORTS WITH UNKNOWN REASONS FOR SUICIDE ATTEMPTS ARE NOT INCLUDED IN THIS TABLE. PERCENTAGES DO NOT ADD UP TO 100 BECAUSE MORE THAN ONE REASON MAY HAVE BEEN GIVEN. THE CATEGORY 'SUICIDE BY FRIEND/RELATIVE' INCLUDES SUICIDE ATTEMPTS.

Induced Terminations of Pregnancy

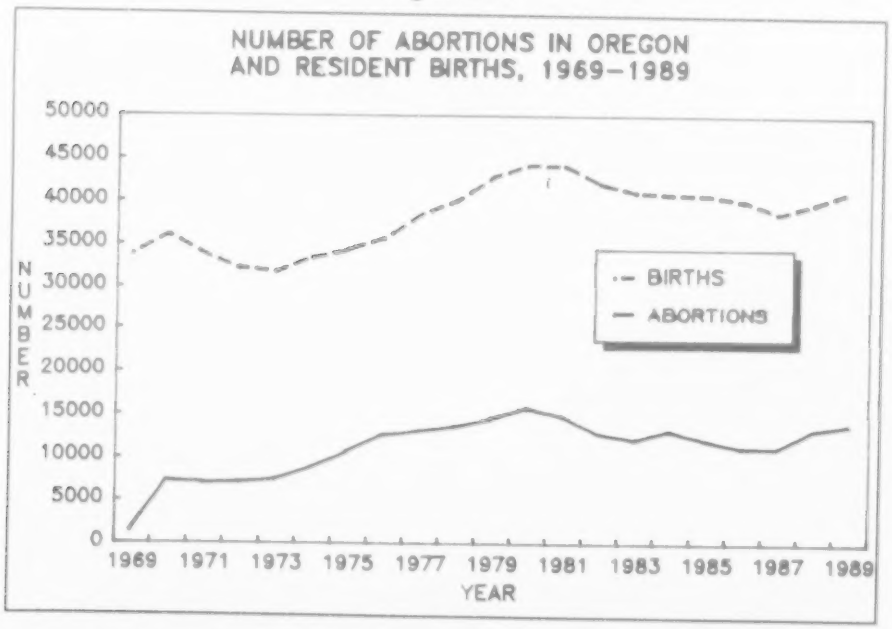
CURRENT TRENDS. During 1989, at least 13,928 induced terminations of pregnancy occurred in Oregon. This was a 4.7 percent increase over 1988. Although the number of abortions performed in the state declined between 1980 and 1987, in the past two years they have increased by 24.9 percent. Most of the increase occurred in 1988. The 1989 figure remains 11.5 percent below the 15,735 abortions reported in 1980.

Out-of-state residents accounted for 1,390 of the 1989 abortions. An unknown number of Oregonians sought such services elsewhere. During this period the percentage of abortions provided in Oregon to out-of-state residents increased at a rate of 14.9 percent, from 8.7 in 1987 to 10.0 percent in 1989.

The increased number of abortions since 1987 is not due to a simple population increase among women of childbearing age. That is, the number of abortions occurring in the state increased by one-fourth; yet, the estimated number of women 15-44 years of age increased by only 2.4 percent since 1987.[1] Similarly, the number of women 15-29 years of age—those which accounted for about four out of every five abortions—increased by nearly the same amount (2.3 percent). Some of the increase in abortions appears due to improved reporting on the part of providers.[2]

Changes in behavior are revealed more by shifts in *rate* than by changes in the number of events. During 1989, the *abortion rate* rose to 21.4 per 1,000 women of childbearing age compared to 20.5 in 1986, an increase of 4.4 percent. In spite of increases in the past two years, it remains 15

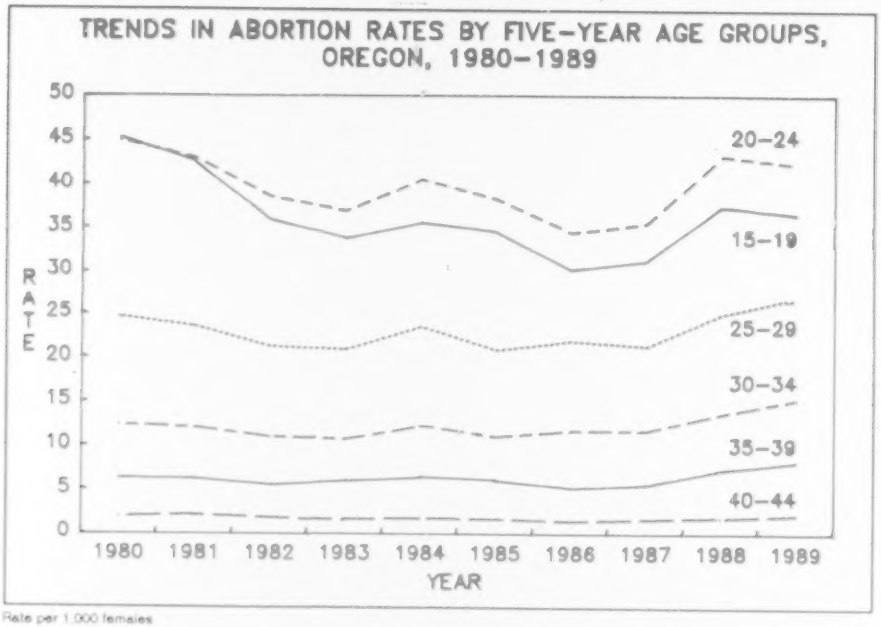
Figure 8-1.



1. Based on estimates provided by the Center for Population Research and Census, Portland State University.

2. Review with providers indicates that as much as 15 percent of the increase between 1987 and 1988 was due to improved reporting.

Figure 8-2.



Rate per 1,000 females

percent below the high point established in 1980. Between 1980 and 1987 the abortion rate in Oregon declined by nearly one-third while that of the nation remained stable. Because 1987 is the most recent year available for U.S. rates, it remains to be seen whether the recent jump in rates observed in Oregon (20.5 percent increase within two years) is a reflection of changes in the nation at large.

Inspection of age-specific rates (Figure 8-2) reveals that the increase in abortion rates occurred among women 25 years of age or older. Among women under 25 years old, abortion rates actually declined slightly.

Figure 8-3.

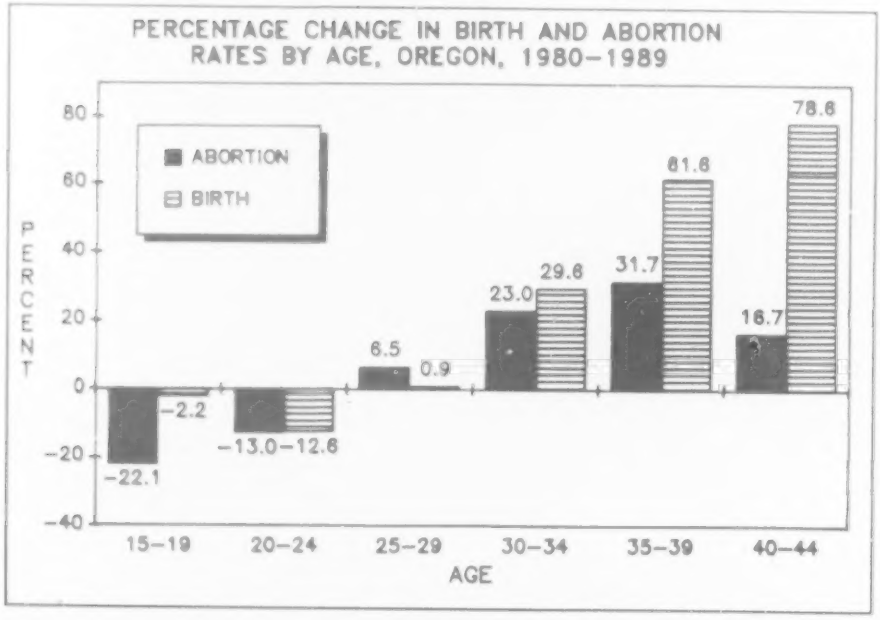
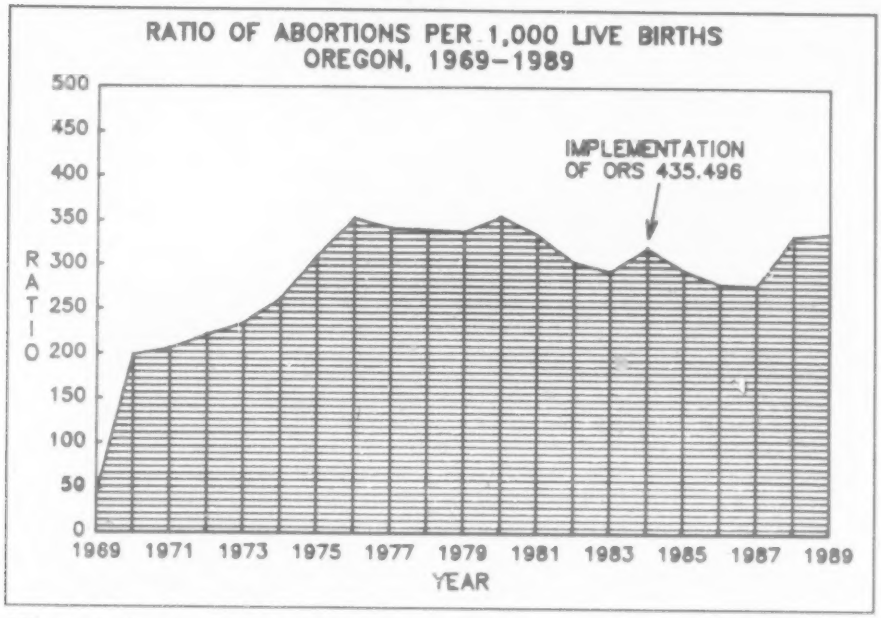


Figure 8-4.



Although the overall abortion rate of 1989 remains 15 percent below that of 1980, women 30 years of age or older display a large percentage increase (Figure 8-3).

AGE. The abortion rate is highest among young women. During 1989, 18- to 19-year-olds had an abortion rate of 49.4 per 1,000; the rate of 20- to 24-year-olds was 42.2. That is, one in 23 (4.4 percent) women in their late teens or early 20s sought abortion services during the year. When young women (15-24 years) are compared to those in their later childbearing years (35-44), a sharp contrast appears: although there are over 10 percent more women in the older age group, the young women account for six and one-half times more induced terminations (57.1 percent vs. 8.6 percent).

Changes in rates of pregnancy—as shown by combined birth and abortion rates—also contrasted sharply between younger and older women of childbearing age (Figure 8-3). Current pregnancy rates among teen women remain below those of 1980; whereas, older women experienced more births as well as abortions in 1989.

PREGNANCY OUTCOMES. When there are no legal restrictions, the percentage of pregnancies terminated by an induced abortion provides one indicator of the number of unwanted pregnancies. In 1973, Oregon's abortion ratio was about one-fifth higher than that of the nation as a whole; by the end of the decade Oregon's rate equalled that of the U.S. (see sidebar). By 1987, the most recent year in which U.S. abortion figures are available, Oregon's abortion ratio had decreased to a point about one-fifth below that of the U.S.

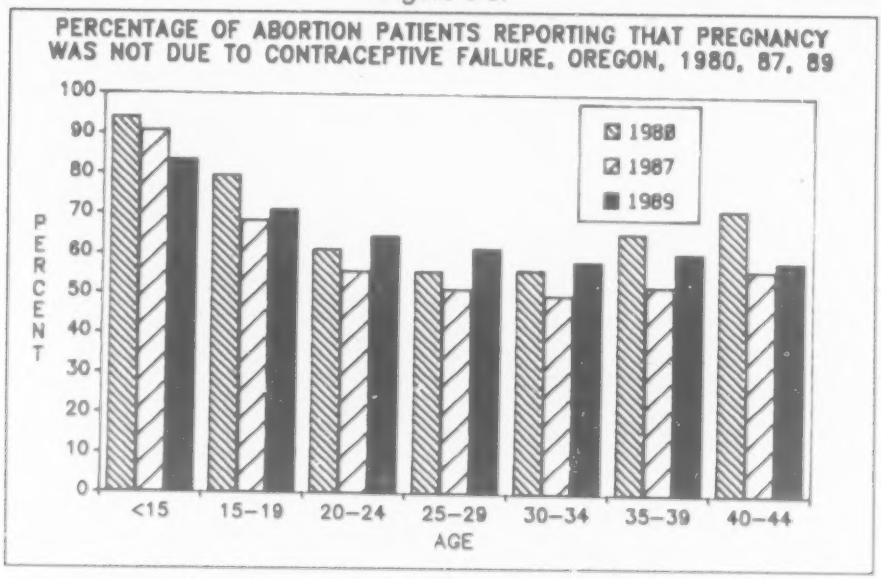
The relationship between the number of births and abortions in Oregon is shown in Figure 8-4. After 1980, the ratio of abortions to 1,000 live births declined—especially among younger women. In 1988, this trend was

Comparison of Oregon and U.S. abortion ratios, 1972-1987

Year	U.S. abortion ratio[1]	Oregon's abortion ratio[2] as percent difference of U.S.
1972	180.1	+23%
1973	196.3	+19%
1974	241.6	+9%
1976	312.0	+13%
***		
1978	347.3	-2%
***		
1980	359.2	-1%
***		
1982	354.3	-14%
***		
1984	364.1	-12%
1985	353.8	-16%
1986	354.2	-21%
1987	356.1	-21%

1. Estimated number of abortions per 1,000 live births.
2. See Table 8-2.
*** Data not available

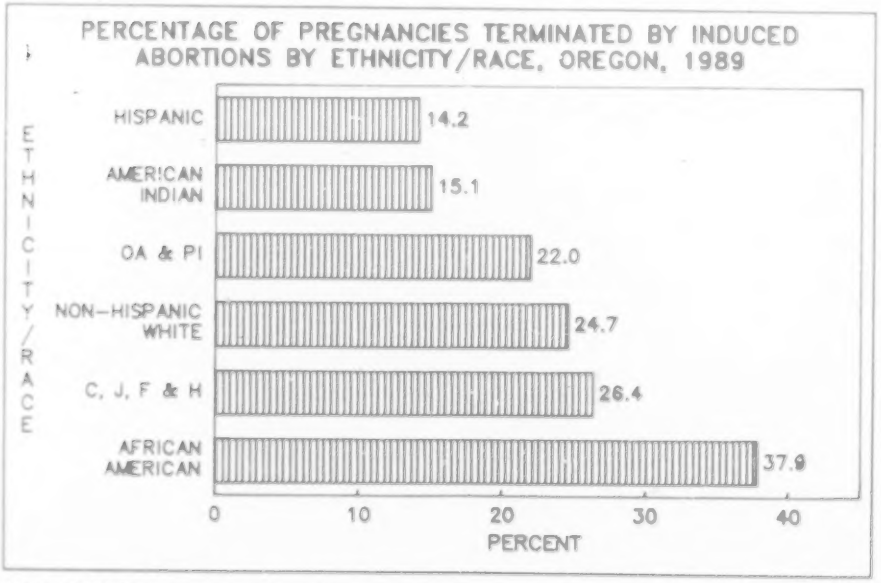
Figure 8-5.



reversed and the ratio remained essentially unchanged in 1989. Stated differently, the percentage of pregnancies ended by an induced termination decreased from 26.6 percent in 1980 to 22.3 percent in 1987; yet by 1989 it had risen to 25.2 percent (Table 8-1). Still, it remains about 5 percent below the high established in 1980.

CONTRACEPTIVE USE. In Oregon, the typical abortion patient was a single, non-Hispanic, white woman in her late teens or early 20s without children who reported that the pregnancy was not due to contraceptive failure (Figure 8-5). One-sixth of all abortion patients fit this description in 1989.

Figure 8-6.



Note: 1989 figures are not directly comparable to those of earlier years due to a change in reporting procedures for ethnicity and race.

This was the first abortion for 57.6 percent of the women. Three out of five abortion patients (62.1 percent) who had previously experienced this procedure failed to use contraception. About 13 percent of them had previously obtained three or more abortions.

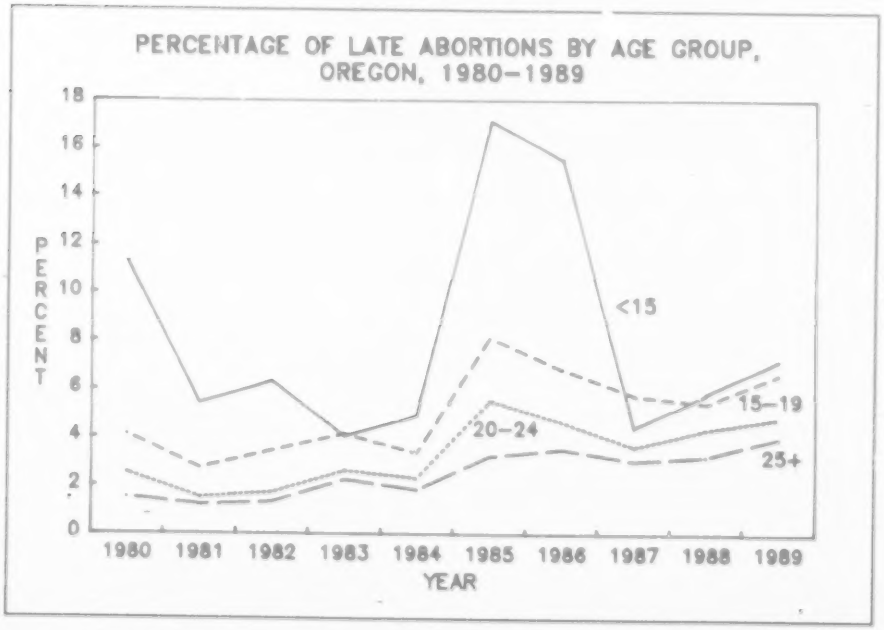
RACE/ETHNICITY. The frequency with which abortion procedures are used to terminate a pregnancy varies among ethnic and racial groups. Women of majority background–i.e., non-Hispanic white women–are more likely to obtain an abortion than Hispanic or Native American women (Figure 8-6). Among the various racial or ethnic groups considered, African American women are most likely to terminate a pregnancy with an induced abortion. Other classifications which reflect cultural background—Chinese, Japanese, Filipino, Hawaiian, and Pacific Islander and Other Asians—display a pattern closer to that of the white majority.

In 1989, African American women terminated over one-third (37.9 percent) of their pregnancies with an induced abortion. This totalled to 547—less than 4 percent of all abortions which occurred in the state during 1989. By comparison, nearly 9 out of 10—11,881 abortions—were provided to non-Hispanic whites.

MEDICAL. Nine out of 10 abortions (88.2 percent) of known gestation were performed prior to the 13th week of pregnancy. Suction curettage was the procedure used in 89.6 percent of the terminations in which the method was known. Less than 5 percent of induced terminations were considered late abortions (performed after the 17th week of gestation had begun); late abortions typically use dilation and evacuation. Teen women are more likely to obtain a late abortion than women 20 years of age or older (Figure 8-7).

There were no reported cases in which the woman died as the result of an induced termination. In fact, complications at the time of the procedure

Figure 8-7.



INDUCED TERMINATIONS

are rare—less than one percent (0.3 percent) of such procedures report any medical complication.

GEOGRAPHIC DISTRIBUTION. Although abortion rates vary widely within the state, all but Wheeler County had at least one resident who sought an abortion in 1989. However, the *providers* of such services are highly concentrated geographically. In 1989, abortions were performed in 16 of Oregon's 36 counties. The extreme concentration of services may be seen in the fact that 95 percent of all abortions were obtained in only four counties and six of the counties accounted for less than 0.3 percent. Although abortions may often be sought outside a patient's community in a setting which insures anonymity, the degree of concentration of services suggests that access to such medical services may be limited for some women.

Within most segments of the population, abortion is an infrequent event. Still, among those women who reached sexual maturity shortly after the nationwide legalization of abortions in 1973, it is estimated that about one-third have experienced an abortion at some time in their lives.[3] An unknown proportion of older women have sought such services at some time in their lives.

3. See Technical Notes.

TABLE 8-1. NUMBER, RATE, AND PERCENT CHANGE FOR PREGNANCIES, BIRTHS, AND ABORTIONS TO 15- TO 44-YEAR-OLDS, OREGON, 1980-1989

YEAR	PREGNANCIES/1			BIRTHS/2			ABORTIONS/3				
	Number	Rate	% Change in Rate From Previous Year	Number	Rate	% Change in Rate From Previous Year	Number	Rate	% Change in Rate From Previous Year	Percent of Pregnancies Ending In Abortions	% Change In Percent From Previous Year
1980	58592	94.4	1.6%	43007	69.3	0.3%	15585	25.1	5.3%	26.6%	3.7%
1981	57586	91.4	-3.1%	42901	68.1	-1.6%	14685	23.3	-7.1%	25.5%	-4.1%
1982	53633	85.4	-6.6%	40947	65.2	-4.3%	12686	20.2	-13.3%	23.7%	-7.2%
1983	51847	83.3	-2.4%	39886	64.1	-1.7%	11961	19.2	-4.8%	23.1%	-2.5%
1984	52490	83.5	0.2%	39466	62.8	-2.1%	13024	20.7	7.8%	24.8%	7.6%
1985	51287	81.1	-2.9%	39364	62.2	-0.9%	11923	18.8	-9.1%	23.2%	-6.3%
1986	49894	79.5	-1.9%	38769	61.8	-0.7%	11125	17.7	-6.0%	22.3%	-4.1%
1987	49672	78.3	-1.4%	38600	60.9	-1.4%	11072	17.5	-1.5%	22.3%	0.0%
1988	53010	82.3	5.1%	39782	61.8	1.5%	13228	20.5	17.7%	25.0%	11.9%
1989	54989	84.7	2.9%	41139	63.3	2.5%	13850	21.3	3.8%	25.2%	0.9%
CHANGE 1980-1989	-3603	-9.7		-1868	-5.9		-1735	-3.8		-1.4%	
% CHANGE 1980-1989	-6.1%	-10.3%		-4.3%	-8.5%		-11.1%	-15.0%		-5.3%	

/1 PREGNANCIES INCLUDE RESIDENT BIRTHS AND OCCURRENCE ABORTIONS, BUT EXCLUDE FETAL DEATHS (SPONTANEOUS ABORTIONS).
/2 OREGON RESIDENCE FIGURES FOR BIRTHS (INCLUDES 15- TO 44-YEAR-OLD FEMALES).
/3 OREGON OCCURRENCE FIGURES FOR ABORTIONS (INCLUDES 15- TO 44-YEAR-OLD FEMALES ONLY).
ALL RATES PER 1,000 POPULATION OF 15- to 44-YEAR-OLD FEMALES. 1989: 649,441
CHANGES OVER TIME ARE CALCULATED USING UNROUNDED NUMBERS, BUT ROUNDED NUMBERS ARE DISPLAYED.

NOTE: ORS 435.496 WAS IMPLEMENTED IN 1984 REQUIRING ALL PROVIDERS OF ABORTIONS TO FILE A REPORT OF INDUCED TERMINATIONS OF PREGNANCY FOR EACH ABORTION PERFORMED.

TABLE 8-2. LIVE BIRTHS AND INDUCED ABORTIONS OCCURRING IN OREGON, 1968-1989

		INDUCED ABORTIONS	
YEAR	BIRTHS	Number	Ratio
1968	32,675	323	9.9
1969	34,477	1,407	40.8
1970	36,031	7,187	199.5
1971	33,753	6,997	207.3
1972	32,123	7,143	222.4
1973	31,738	7,447	234.6
1974	33,438	8,794	263.0
1975	34,312	10,641	310.1
1976	35,612	12,590	353.5
1977	38,448	13,163	342.4
1978	40,015	13,605	340.0
1979	42,874	14,501	338.2
1980	44,223	15,735*	355.8
1981	44,150	14,799	335.2
1982	42,093	12,807	304.3
1983	41,047	12,064	293.9
1984	40,841	13,133**	321.6
1985	40,778	12,056	295.6
1986	40,093	11,217	279.8
1987	39,996	11,147	278.7
1988	41,345	13,309	321.9
1989	42,710	13,928	326.1

* The increase in the 1980 figure reflects improved reporting rather than an increase in the number of abortions performed. Approximately 1,000 - 1,400 of the abortions were performed by providers who did not participate in the voluntary abortion reporting system prior to 1980 even though they were performing abortions in previous years.

** The increase in the 1984 figure is probably a consequence of the implementation of ORS 435.496, which requires that an induced termination of pregnancy report be filed by abortion providers whenever an induced abortion is performed.

NOTE: Induced Abortion Ratio is the number of abortions per 1,000 live births.

TABLE 8-3. NUMBER OF INDUCED ABORTIONS BY RACE/ETHNICITY, MARITAL STATUS, AND AGE, OREGON OCCURRENCE, 1989

ETHNICITY RACE & MARITAL STATUS	Total	AGE GROUPS								
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	UNKNOWN
TOTAL	13,928	73	3,498	4,314	2,917	1,708	953	221	4	240
WHITE	12,596	60	3,204	3,903	2,641	1,551	854	190	4	189
AFRICAN AMERICAN	564	8	137	200	116	64	27	4	-	8
AMERICAN INDIAN	129	1	39	41	29	12	2	1	-	4
CHINESE	105	1	11	25	30	19	9	6	-	4
JAPANESE	62	-	6	21	12	9	10	2	-	2
HAWAIAN	11	-	2	4	2	1	2	-	-	-
FILIPINO	30	-	6	6	10	5	3	-	-	-
OTHER ASIAN & PACIFIC ISLANDER	196	1	48	58	35	20	20	6	-	8
OTHER NON-WHITE	6	-	-	3	1	-	2	-	-	-
UNKNOWN	229	2	45	53	41	27	24	12	-	25
HISPANIC	373	4	76	128	83	36	27	7	-	12
WHITE	309	3	65	106	69	31	19	6	-	10
AFRICAN AMERICAN	4	-	1	-	1	-	1	-	-	1
AMERICAN INDIAN.	4	-	2	2	-	-	-	-	-	-
CHINESE	3	1	-	1	-	-	1	-	-	-
JAPANESE	1	-	-	-	-	-	1	-	-	-
HAWAIAN	3	-	-	1	1	1	-	-	-	-
FILIPINO	-	-	-	-	-	-	-	-	-	-
OTHER ASIAN & PACIFIC ISLANDER	2	-	-	-	1	-	-	-	-	1
OTHER NON-WHITE.	4	-	-	2	1	-	1	-	-	-
UNKNOWN	43	-	8	16	10	4	4	1	-	-
NON-HISPANIC	12,993	64	3,310	4,031	2,717	1,595	878	192	4	202
WHITE	11,881	55	3,057	3,675	2,481	1,461	806	169	4	173
AFRICAN AMERICAN	547	8	132	193	114	63	26	4	-	7
AMERICAN INDIAN.	117	-	35	37	26	12	2	1	-	4
CHINESE	96	-	10	23	28	19	7	6	-	3
JAPANESE	58	-	5	19	12	9	9	2	-	2
HAWAIAN	8	-	2	3	1	-	2	-	-	-
FILIPINO	28	-	6	6	9	4	3	-	-	-
OTHER ASIAN & PACIFIC ISLANDER	184	1	46	56	33	19	16	6	-	7
OTHER NON-WHITE.	2	-	-	1	-	-	1	-	-	-
UNKNOWN	72	-	17	18	13	8	6	4	-	6
ETHNICITY UNKNOWN	562	5	112	155	117	77	48	22	-	26
MARITAL STATUS										
NEVER MARRIED	8,524	71	3,316	3,143	1,259	449	158	14	-	114
NOW MARRIED	2,498	1	110	598	723	553	367	97	3	46
WIDOWED	78	-	3	12	28	15	10	9	-	1
DIVORCED	1,865	-	20	282	616	518	324	81	-	24
SEPARATED	720	-	14	228	241	140	73	9	1	14
UNKNOWN	243	1	35	51	50	33	21	11	-	41

- QUANTITY IS ZERO

TABLE 8-4. NUMBER OF ABORTIONS IN RELATION TO LENGTH OF GESTATION BY METHOD, COMPLICATIONS AND AGE OF PATIENT, OREGON OCCURRENCE, 1989.

METHOD, COMPLICATIONS AND AGE OF PATIENT	Total	WEEKS GESTATION						
		< 9	9-12	13-16	17-20	21-22	23+	UNKNOWN
TOTAL	13,928	6,038	5,974	926	457	220	2	311
METHOD								
SUCTION CURETTAGE	12,333	5,742	5,770	539	23	2	-	257
SHARP CURETTAGE	20	13	4	2	-	1	-	-
SALINE	-	-	-	-	-	-	-	-
PROSTAGLANDIN	3	-	-	-	1	1	1	-
HYSTEROTOMY	-	-	-	-	-	-	-	-
HYSTERECTOMY	1	1	-	-	-	-	-	-
OTHER	3	2	1	-	-	-	-	-
DILATION AND EVACUATION	1,392	219	146	377	426	214	-	10
VAGINAL PROSTAGLANDIN	9	-	-	-	6	2	1	-
UNKNOWN	167	61	53	8	1	-	-	44
COMPLICATIONS								
NONE	13,459	5,839	5,793	902	453	219	2	251
HEMORRHAGE	3	1	1	1	-	-	-	-
INFECTION	3	2	-	1	-	-	-	-
UTERINE PERFORATION	5	4	1	-	-	-	-	-
CERVICAL LACERATION	-	-	-	-	-	-	-	-
RETAINED PRODUCTS	25	8	11	1	3	-	-	2
OTHER	-	-	-	-	-	-	-	-
MULTIPLE COMPLICATIONS	-	-	-	-	-	-	-	-
UNKNOWN	433	184	168	21	1	1	-	58
AGE GROUPS								
< 15	73	25	32	7	4	1	-	4
15-19	3,498	1,289	1,632	284	157	71	-	65
20-24	4,314	1,822	1,878	313	146	67	1	87
25-29	2,917	1,310	1,240	176	74	40	-	77
30-34	1,708	858	657	76	44	31	-	42
35-39	953	489	363	47	24	7	1	22
40-44	221	123	78	8	4	3	-	5
45+	4	2	2	-	-	-	-	-
UNKNOWN	240	120	92	15	4	-	-	9

- QUANTITY IS ZERO

TABLE 8-5. CONTRACEPTIVE USE, NUMBER OF PREVIOUS ABORTIONS AND NUMBER OF LIVING CHILDREN BY AGE OF PATIENT, OREGON OCCURRENCE, 1989.

CONTRACEPTIVE USED PREVIOUS ABORTIONS CHILDREN LIVING	Total	AGE GROUPS								
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	UN-KNOWN
TOTAL	13,928	73	3,498	4,314	2,917	1,708	953	221	4	240
CONTRACEPTIVE USED & PREVIOUS ABORTIONS										
NONE USED	8,988	61	2,486	2,790	1,796	1,000	579	130	1	145
NO PREVIOUS ABORTION	5,189	57	1,985	1,606	749	381	262	73	-	76
ONE	2,231	3	373	741	587	305	162	24	1	35
TWO	830	-	71	247	243	161	83	15	-	10
THREE	311	-	10	93	100	77	23	5	-	3
FOUR OR MORE	160	-	4	32	62	37	22	3	-	-
PILLS USED	1,116	2	263	462	248	99	22	2	-	18
NO PREVIOUS ABORTION	570	2	181	226	115	25	8	2	-	11
ONE	341	-	69	147	75	41	7	-	-	2
TWO	120	-	8	48	34	23	4	-	-	3
THREE	43	-	2	17	15	6	3	-	-	-
FOUR OR MORE	19	-	1	8	8	2	-	-	-	-
CONDOM USED	1,953	8	567	570	374	236	128	35	1	34
NO PREVIOUS ABORTION	1,202	7	483	354	187	90	50	15	1	15
ONE	481	-	70	161	98	89	39	16	-	8
TWO	162	-	8	37	55	31	26	-	-	5
THREE	41	-	-	10	10	15	5	-	-	1
FOUR OR MORE	34	-	-	3	14	10	4	2	-	1
OTHER CONTRACEPTIVE	1,816	2	171	478	487	359	220	54	2	43
NO PREVIOUS ABORTION	850	1	137	253	186	135	92	20	2	24
ONE	544	-	24	149	158	114	69	24	-	6
TWO	250	1	5	50	82	66	34	3	-	9
THREE	78	-	-	12	26	22	12	5	-	1
FOUR OR MORE	42	-	-	3	18	14	6	1	-	-
CONTRA USE UNKNOWN	55	-	11	14	12	14	4	-	-	-
NO PREVIOUS ABORTION	27	-	6	7	7	5	2	-	-	-
ONE	20	-	3	6	5	5	1	-	-	-
TWO	3	-	-	1	-	1	1	-	-	-
THREE	2	-	-	-	-	2	-	-	-	-
PREV ABORTIONS UNKNOWN	378	2	58	103	83	51	38	13	-	30
NUMBER LIVE CHILDREN										
NO CHILDREN	7,116	69	2,951	2,360	971	414	218	23	-	110
TOTAL WITH CHILDREN	6,532	2	493	1,866	1,892	1,257	720	188	3	111
ONE	3,062	1	411	1,130	829	398	194	42	1	56
TWO	2,300	1	75	556	708	528	313	86	2	31
THREE	823	-	5	162	236	224	140	37	-	19
FOUR	234	-	2	14	88	79	40	7	-	4
FIVE OR MORE	113	-	-	4	31	28	33	16	-	1
UNKNOWN	280	2	54	88	54	37	15	10	1	19

- QUANTITY IS ZERO

TABLE 8-6. NUMBER OF INDUCED ABORTIONS OCCURRING IN OREGON BY AGE AND RESIDENT COUNTY, 1989

RESIDENT COUNTY	Total	AGE GROUPS								
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	UN-KNOWN
TOTAL.....	13,928	73	3,498	4,314	2,917	1,708	953	221	4	240
BAKER.....	52	-	13	9	8	12	7	2	-	1
BENTON....	302	1	69	96	63	41	19	5	-	8
CLACKAMAS.	1,026	6	309	275	194	119	79	21	-	23
CLATSOP...	125	1	26	38	30	20	7	1	-	2
COLUMBIA..	115	-	36	40	14	16	9	-	-	-
COOS.....	212	3	47	76	35	23	20	4	-	4
CROOK.....	32	-	8	8	3	8	3	-	-	2
CURRY.....	51	-	10	17	14	4	3	1	-	2
DESCHUTES.	312	-	64	85	68	54	29	10	-	2
DOUGLAS...	260	3	70	72	54	28	20	7	-	6
GILLIAM...	3	-	-	2	-	-	1	-	-	-
GRANT.....	16	-	7	2	6	-	1	-	-	-
HARNEY....	16	-	3	5	6	1	1	-	-	-
HOOD RIVER	53	-	16	13	12	6	5	1	-	-
JACKSON...	566	2	146	164	130	82	29	8	-	5
JEFFERSON.	49	-	10	25	6	2	6	-	-	-
JOSEPHINE.	243	1	69	58	53	31	18	7	-	6
KLAMATH...	219	1	64	58	40	26	20	5	-	5
LAKE.....	12	-	7	4	1	-	-	-	-	-
LANE.....	1,174	5	285	382	226	145	79	16	-	36
LINCOLN...	141	1	36	42	28	15	13	3	-	3
LINN.....	261	1	77	90	45	26	12	3	1	6
MALHEUR...	30	-	12	7	3	3	1	-	-	4
MARION....	850	7	201	274	187	95	50	17	-	19
MORROW....	9	-	2	1	3	1	2	-	-	-
MULTNOMAH.	4,322	20	1,004	1,383	987	538	260	65	3	62
POLK.....	81	-	27	28	9	11	4	-	-	2
SHERMAN...	1	-	1	-	-	-	-	-	-	-
TILLAMOOK.	82	1	18	21	22	9	10	1	-	-
UMATILLA..	150	-	45	39	35	17	12	-	-	2
UNION.....	86	-	26	20	15	10	10	1	-	4
WALLOWA...	19	-	7	3	4	3	2	-	-	-
WASCO.....	83	2	27	26	14	9	2	2	-	1
WASHINGTON	1,359	5	311	433	305	163	108	20	-	14
WHEELER...	-	-	-	-	-	-	-	-	-	-
YAMHILL...	223	3	56	71	52	22	15	1	-	3
COUNTY UNK	3	-	-	1	-	2	-	-	-	-
OTHER STATE.....	1,390	10	389	446	245	166	96	20	-	18

- QUANTITY IS ZERO

TABLE 8-7. NUMBER OF INDUCED ABORTIONS BY RESIDENT COUNTY AND COUNTY OF OCCURRENCE
OREGON, 1989

COUNTY OF RESIDENCE	COUNTY OF OCCURRENCE																
	TOTAL	BENTON	CLACKAMAS	CROOK	CURRY	DESCHUTES	JACKSON	JEFFERSON	JOSEPHINE	KLAMATH	LANE	LINN	MALHEUR	MARION	MULTNOMAH	UNION	WASHINGTON
TOTAL.....	13,928	244	8	141	1	11	959	1	11	119	1,442	2	41	27	9,109	170	1,642
BAKER.....	52	-	-	-	-	-	-	-	-	-	1	-	9	-	9	33	-
BENTON....	302	129	-	-	-	-	1	-	-	-	21	-	-	-	97	-	54
CLACKAMAS.	1,026	-	2	-	-	-	-	-	-	-	2	-	-	-	931	-	91
CLATSOP...	125	-	-	-	-	-	-	-	-	-	-	-	-	-	63	-	62
COLUMBIA..	115	-	-	-	-	-	-	-	-	-	1	-	-	-	104	-	10
COOS.....	212	-	-	-	-	-	20	-	-	1	152	-	-	-	31	-	8
CROOK.....	32	-	-	19	-	-	-	-	-	-	1	-	-	-	12	-	-
CURRY.....	51	-	-	-	-	-	16	-	-	2	22	-	-	-	10	-	1
DESCHUTES.	312	3	-	90	-	10	1	-	-	-	20	-	-	-	167	-	21
DOUGLAS...	260	-	-	-	-	-	23	-	-	-	189	-	-	-	44	-	4
GILLIAM...	3	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1
GRANT.....	16	-	-	3	-	-	-	-	-	-	-	-	1	-	9	2	1
HARNEY....	16	-	-	1	-	1	1	-	-	1	1	-	1	-	10	-	-
HOOD RIVER	53	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	1
JACKSON...	566	-	-	-	-	-	534	-	-	-	5	-	-	-	27	-	-
JEFFERSON.	49	-	-	22	-	-	-	-	-	-	-	-	-	-	25	-	2
JOSEPHINE.	243	-	-	-	-	-	205	-	11	1	9	-	-	-	17	-	-
KLAMATH...	219	-	-	-	1	-	92	-	-	102	4	-	-	-	17	-	3
LAKE.....	12	-	-	2	-	-	1	-	-	8	-	-	-	-	-	-	1
LANE.....	1,174	4	-	-	-	-	2	-	-	1	951	-	-	-	187	-	29
LINCOLN...	141	12	-	1	-	-	-	-	-	-	5	1	-	-	67	-	55
LINN.....	261	81	-	-	-	-	-	-	-	-	29	1	-	-	116	-	34
MALHEUR...	30	-	-	-	-	-	-	-	-	-	1	-	15	-	13	1	-
MARION....	850	11	-	-	-	-	1	-	-	-	11	-	-	24	602	-	201
MORROW....	9	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-
MULTNOMAH.	4,322	-	2	2	-	-	1	1	-	-	3	-	1	-	4,074	-	238
POLK.....	81	1	-	-	-	-	-	-	-	-	2	-	-	2	35	-	41
SHERMAN...	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
TILLAMOOK.	82	-	-	-	-	-	-	-	-	-	-	-	-	-	47	-	35
UMATILLA..	150	-	-	-	-	-	-	-	-	-	-	-	1	-	91	51	7
UNION.....	86	1	-	-	-	-	-	-	-	-	-	-	-	-	16	67	2
WALLOWA...	19	-	-	-	-	-	-	-	-	-	-	-	-	-	3	15	1
WASCO.....	83	-	-	-	-	-	-	-	-	-	-	-	-	-	77	-	6
WASHINGTON	1,359	-	4	-	-	-	-	-	-	-	1	-	-	-	826	-	528
WHEELER...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YAMHILL...	223	-	-	-	-	-	1	-	-	-	1	-	-	-	94	-	127
COUNTY UNK	3	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1
OTHER STATE.....	1,390	2	-	1	-	-	60	-	-	3	9	-	13	1	1,223	1	77

- QUANTITY IS ZERO

TEEN PREGNANCY

Teen Pregnancy

OVERVIEW. In 1980 there were more than 10,000 pregnancies[1] among Oregon residents under 20 years of age (Figure 9-1); the *teen pregnancy rate*[2] reached a high of 93.8 per 1,000 (Table 9-1). Nearly two out of every five teen pregnancies were to females under 18 years; over 200 were to those under 15 years of age (Table 9-2).

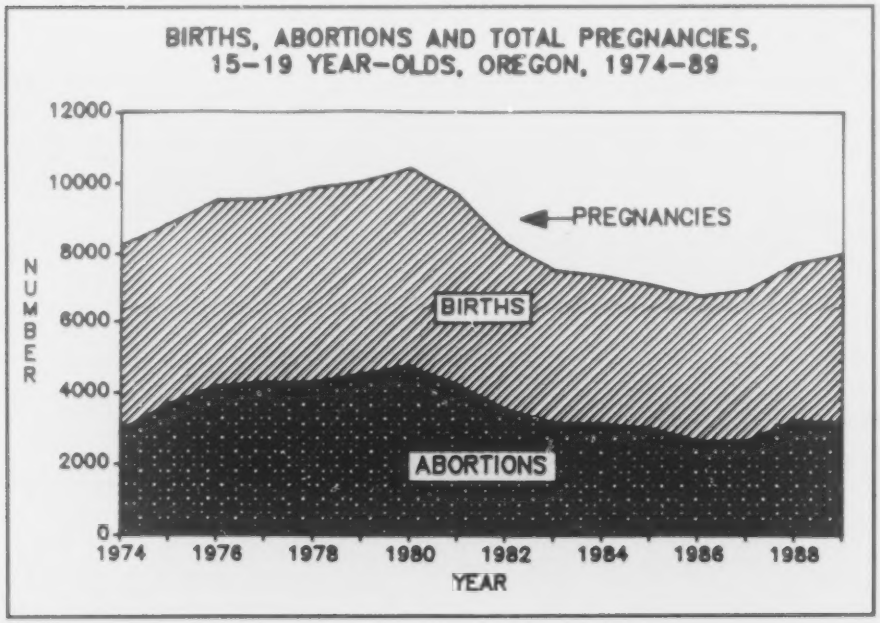
After 1980, teen pregnancy statistics began to improve. Within three years the *rate* of pregnancy among 15- to 19-year-olds dropped 22 percent. Then, improvement, as measured by this statistic, stopped. Only among females of high school age (15-17 years) did the number and rate of pregnancies continue to decline—although it did so at a much slower pace. By 1986, even this group showed no further improvement.

Risk of teen pregnancy declines, then increases again

In that year most of the statistics descriptive of teen pregnancy behavior in Oregon were at their most favorable point. The teen pregnancy rate was nearly one-fifth less than the national rate. The total number of teen pregnancies had declined by more than one-third to less than 7,000 annually. The *rate* of pregnancies among 15- to 17-year-olds had reached a point 27 percent below that of 1980 and the number of pregnancies among teens under 15 years was one-fourth less than at the start of the decade.

In the next two years, however, Oregon's teen pregnancy rate rose at a rate of 8 percent per year to over 80 per 1,000. Moreover, the pace at

Figure 9-1.



1. Pregnancies are estimated in terms of the number of births and abortions. See Teen Pregnancy section of the Technical Notes.

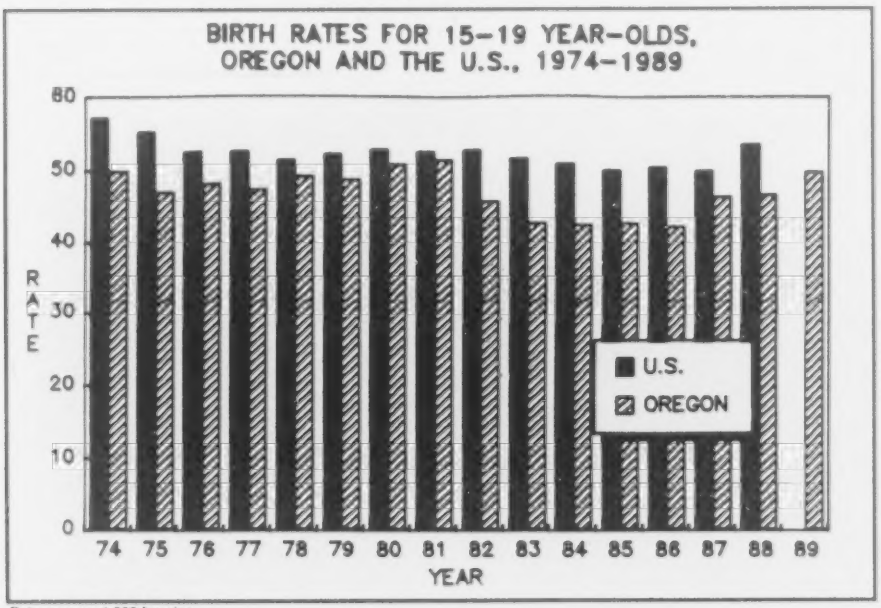
2. *Teen Pregnancy Rate* is calculated in terms of the number of births and abortions among 15- to 19-year-olds per 1,000 females of that age. As used in this report the term *teen pregnancy* also includes births and abortions to females under 15 years of age.

which the rate increased was 50 percent higher for females of high school age than for older teens (18 percent vs. 12 percent in two years).

CURRENT TRENDS. In 1989 there were at least 8,152 pregnancies to Oregon women under 20 years of age. This is a 3.9 percent increase over 1988. The *teen pregnancy rate* continued its rise from a low point in 1986 to its highest level since 1981. In 1989 it reached 82.3 per 1,000 females 15-19 years of age. Comparison of the change in pregnancy rate among high school aged teens (15-17 years) with that of their older counterparts (18-19 years) indicates that the increase occurred among the older teens (Table 9-1). There were 132 pregnancies among females under 15 years of age in 1989 also (Table 9-2).

Over 15 percent of the known pregnancies to Oregon residents were to teenaged women in 1989.[3] More than one-third (35.4 percent) of these were to teens under 18 years of age.

Figure 9-2.



Rates are per 1,000 females.

TEEN BIRTHS. In 1989, there were 4,918 births to mothers under 20 years of age who were residents of the state. This represents an 8.0 percent increase over the preceding year. Currently, the *teen birth rate* is 49.8 per 1,000, an increase of nearly 7 percent in the past year.

Oregon's teen birth rate is 13 percent below the national level (see sidebar), based upon the most recent estimates of the U.S. teen birth rate.

3. An unknown number of pregnant teens traveled out-of-state to obtain an abortion. Because such cases must be included in any unbiased estimate of pregnancies among teen residents, the numbers and rates given must be considered minimal estimates only. In 1989, 391 teens came to Oregon from adjoining states and eight came from more distant locations to obtain an abortion. Based on this information, the actual number of pregnancies among Oregon teens may be about 5 percent greater than the estimated number.

The difference is relatively greater for younger teens than for 18- to 19-year-olds (1.23:1 vs. 1.10:1, respectively).

In 1989, the birth rate for 18- to 19-year-olds was 77.1 per 1,000; that of 15- to 17-year-olds was 28.0. This is the first year in which the birth rate among women of high school age has exceeded the rate established in 1980. Since 1986 it appears to be trending upward and is now one-fifth higher than the level that existed during 1983-1986.

Two out of three (66.0 percent) babies born to teens have mothers who are unmarried. This is over 50 percent higher than the percentage recorded among teens in 1980.[4]

Teen Birth Rates[1]

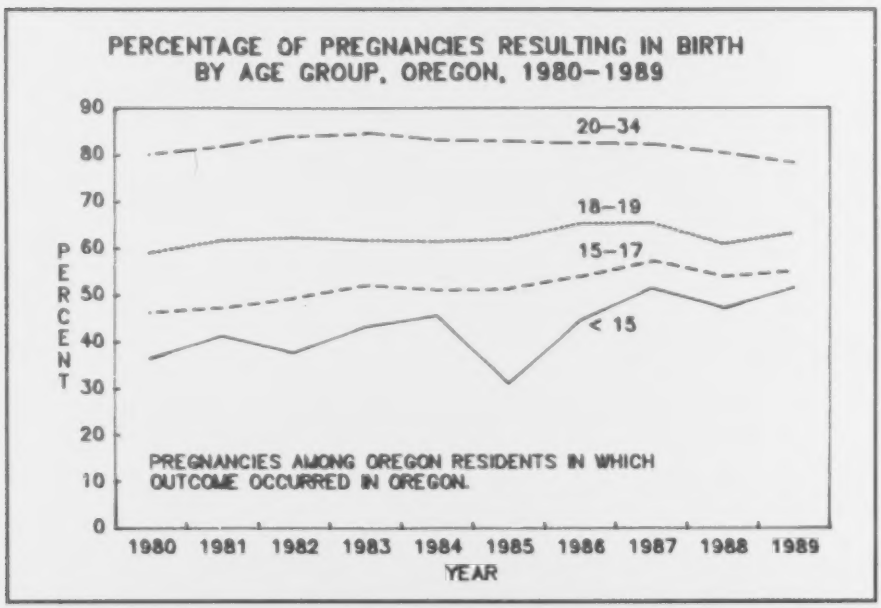
Age Groups	U.S. 1988[2]	Oregon 1988	Oregon 1989
15-19	53.6	46.7	49.8
15-17	33.8	27.4	28.0
18-19	81.7	74.0	77.1

1 All rates per 1,000 females.
2 Most recent estimate of U.S. rates.

TEEN ABORTIONS. One in every four abortions obtained by an Oregon resident is provided to a teenaged woman. In 1989, there were 3,234 abortions to Oregon residents under 20 years of age. The *teen abortion rate* declined 2.9 percent from the previous year to 32.5 per 1,000 15- to 19-year-old females. This is about one-fourth below the maximum rate established in 1980. The difference is somewhat more pronounced for teens of high school age. However, comparison of the most recent data–1989 vs. 1988–shows a 3 percent decrease in rate among 15- to 17-year-olds and a 6 percent decline among 18- to 19-year-olds.

PREGNANCY OUTCOMES. For several years following 1980, the likelihood increased that pregnant teen women would give birth. The change was more apparent among younger teens. Between 1980 and 1987, the rate of increase in the proportion of pregnancies resulting in birth

Figure 9-3.



4. The increasing number of births to unmarried mothers is part of statewide and national trends not confined to teens. Although the proportion of births to unmarried mothers among teens is over three times greater than that among women over 20 years of age, the *rate of increase* in births to unmarried women is twice as great among older women than those under 20 years. Between 1980 and 1989 the percentage of births to unmarried mothers over 20 years of age rose from 10.3 percent in 1980 to 19.8 percent in 1989. Among teen women the percentage increased from 44.0 percent to 66.0 percent.

was over twice as great for 15- to 17-year-olds as for older teens.

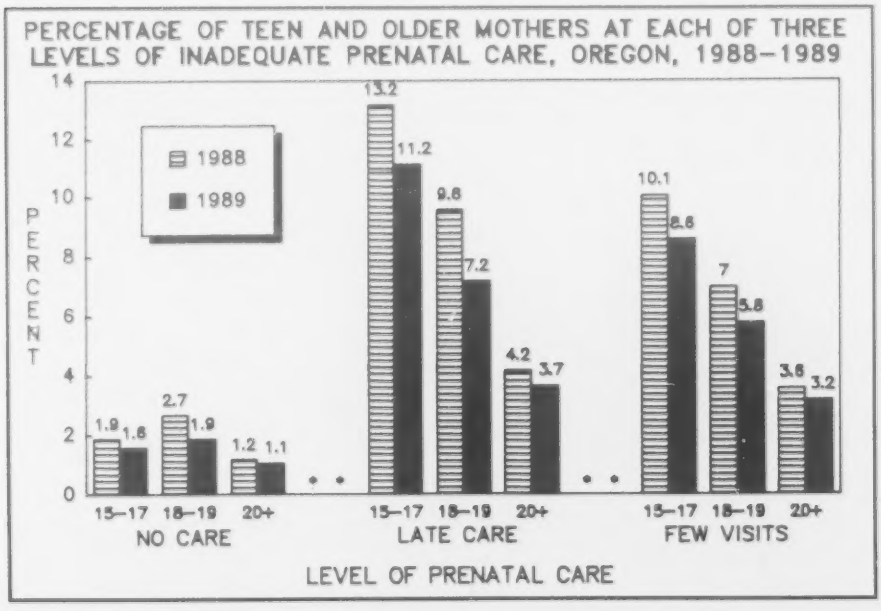
Since 1987 the proportion of pregnancies among teen women which results in a live birth may have stabilized. Among 18- to 19-year-olds, three out of five pregnancies are taken to term. In 1989 the figure was 63.2 percent and may be compared directly with the 78.4 percent birth outcomes which occurred among women 20-34 years of age—those years considered to be the most desirable for childbearing from medical and social perspectives. The proportion of pregnancies resulting in birth among women of high school age (15-17 years) was one-eighth less than that of older teens in 1989: 55.1 percent.

Although the number and rate of pregnancies among females under 15 years of age has declined by one-third since 1980, the number of births to these very young teens has not dropped proportionately (Table 9-2). Between 1980 and 1985 the number of births in this group did decline by two-fifths; yet, the trend reversed, and by 1989 the number of births was less than 5 percent below the number recorded in 1980. During the same period, the number of abortions among females under 15 years of age was cut in half. As a result, the proportion of pregnancies which resulted in a live birth among these very young females increased 47 percent between 1980 and 1989. Currently, one-half of all pregnancies within this age group result in a live birth.

Data from birth and abortion reports do not show whether the increase in the birth to abortion ratio among teens was due to changes in attitude toward parenthood or abortion, influence exerted by the women's families, improved economic supports for such women, or declining access to abortion services for younger teens. An obvious way to reduce both abortions and births among females under 18 years of age is to reduce the number of pregnancies within this group.

PRENATAL CARE. In 1989, more than one in eight (137.9 per 1,000

Figure 9-4.



births) teen mothers did not receive adequate prenatal care; among those of high school age this figure was closer to one in six. Between 1988 and 1989, the level of prenatal care improved by nearly one-fifth (19.8 percent) among 15- to 19-year-old teens. Teens continue to have a rate of *inadequate* prenatal care which is nearly one-tenth (9.2 percent) higher than that of 1980.

Non-Hispanic, white teens (15-19 years) had a rate of inadequate prenatal care of 116.2 per 1,000 births in 1989. This represents a 25 percent reduction when compared to the previous year. Minority teens—Hispanic, African American, Indian, and other non-white—display rates of inadequate care as much as double those of non-Hispanic whites (Table 9-4).

In general, teens of high school age have rates of inadequate prenatal care (IPNC) which are higher than those of 18- to 19-year-old teens. Among non-Hispanic whites the IPNC rate is more than a third greater for young teens. By comparison, Hispanics, African Americans, and other non-whites display little difference between age sub-groups. On the other hand, among Native Americans, the rate for 15- to 17-year-olds is nearly 80 percent higher than that for 18- to 19-year-olds.

LOW BIRTHWEIGHT INFANTS. The weight of an infant at birth is a key indicator of health; the proportion of low-weight births indicates level of health at birth for a group. In 1989, the state-wide rate of low-weight births to teens was 66.0 per 1,000 births. This represents a 7 percent decrease since 1988. African American and other non-white teens had low birthweight rates about double those of non-Hispanic white teens (130.7 and 115.9 vs. 64.1, respectively). In contrast, Indian teens displayed a rate of 58.0 per 1,000 and Hispanic teens had a rate one-fourth lower than the state rate (48.8).

The relationship between level of prenatal care and frequency of low birthweight infants among teens in 1989 is shown in Table 9-3. In general, teen women who did not receive adequate prenatal care were *more than twice* as likely to have low birthweight babies than those who had received adequate care. The difference is over one-fifth greater among teen women of high school age (15-17 years) than among older teens (2.75 vs. 2.23) (see sidebar). Ethnicity and race are other factors which combine with age and level of prenatal care to create disparities in the frequency of low weight births. For example, in 1989, a 15- to 17-year-old African-American woman who lacked adequate prenatal care was three to six times more likely to have a low weight birth than a white female of the same age who had received adequate prenatal care.[5]

The Apgar score[6] recorded by the attending physician five minutes after birth provides a second measure of infant health at the time of delivery. The rate of low Apgar scores (0-6) among 15- to 19-year-old teens was 26.2 per

Low birthweight rates of teen mothers in relation to level of prenatal care received and minority status, Oregon, 1989

Ethnicity, Race, and Age Group	Adequate Prenatal Care (APNC) Rate	Inadequate Prenatal Care (IPNC) Rate	Comparison Ratio (IPNC / APNC)
TOTAL			
15-19	55.0	131.7	2.39
15-17	50.6	139.4	2.75
18-19	56.9	126.9	2.23
Non-Hispanic White			
15-17	48.4	137.1	2.83
18-19	55.2	140.9	2.55
Hispanics and Non-white			
15-17	60.9	144.7	2.38
18-19	67.5	90.1	1.33

Rates per 1,000 births

5. Based on data in Table 9-3, the low birthweight rate among 15- to 17-year-olds was 48 per 1,000 for non-Hispanic whites with adequate prenatal care compared to 304 per 1,000 African Americans with *inadequate* prenatal care. In spite of the small number of cases for the African American group (N=23), the difference is statistically significant. It produces a comparison ratio of 6.33:1. A more cautious approach which employed a value corresponding to the lower limit of the 95 percent confidence interval would generate a ratio of nearly 3 to 1.

6. See definitions in Technical Notes section.

1,000. This is about two-thirds higher (1.65:1) than the rate observed among mothers 20 years of age or older (15.9 per 1,000).

Although teen women (15-19 years) were less likely to use alcohol during pregnancy than older women (20+ years), they were more likely to be smokers (1.55:1). At least one in three teen mothers are smokers during pregnancy. No difference in this respect was observed between younger (15-17 years) and older teens.

METHOD OF PAYMENT. 1989 was the first year in which information about method of payment was reported on birth certificates. This data reveals that the method of payment for expenses associated with the birth of a child is different for teen mothers than for older women (Table 9-10).

Expenses of childbirth are typically covered by private insurance.[7] Of births to women 20 or older, two-thirds (66.4 percent) were paid for in this fashion; yet, only one-fourth (26.5 percent) of the births to teen women were paid by insurance in 1989. Teen mothers were more likely to pay these costs directly (12.1 percent vs. 9.4 percent among women over 20 years of age).

Much of the cost of teen births is borne by public agencies. In 1989, three out of five births to teens (59.2 percent) were paid for—at least in part—through some form of public assistance. By comparison, about one in five births (23.2 percent) to mothers 20 years of age or older were paid for in this way. Thus, the higher the proportion of teen births, the greater the impact is likely to be upon social welfare budgets.

7. Approximately 1 percent of birth certificates mentioned two or more sources of payment.

TABLE 9-1. OREGON PREGNANCIES FOR TEENS 15-19, 1975-1989

YEAR	PREGNANCIES						BIRTHS			
	15 to 17		18 to 19		15 to 19		15 to 17		18 to 19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1974	3,361	---	4,881	---	8,242	77.2	1,918	---	3,438	---
1975	3,718	---	5,135	---	8,853	80.2	1,868	---	3,338	---
1976	3,883	---	5,644	---	9,527	85.7	1,837	---	3,530	---
1977	3,853	---	5,718	---	9,571	85.5	1,793	---	3,510	---
1978	3,895	---	5,968	---	9,863	87.1	1,892	---	3,696	---
1979	3,802	---	6,240	---	10,042	88.4	1,790	---	3,754	---
1980	3,844	59.3	6,576	141.9	10,420	93.8	1,775	27.4	3,883	83.8
1981	3,504	56.8	6,202	138.6	9,706	91.2	1,655	26.8	3,828	85.6
1982	2,978	49.5	5,332	119.9	8,310	79.4	1,466	24.4	3,317	74.6
1983	2,694	45.5	4,823	112.3	7,517	73.6	1,397	23.6	2,978	69.3
1984	2,677	45.6	4,693	114.3	7,370	73.9	1,365	23.2	2,880	70.2
1985	2,631	44.5	4,502	119.7	7,133	73.8	1,349	22.8	2,787	74.1
1986	2,536	43.1	4,271	108.3	6,807	69.2	1,368	23.2	2,791	70.8
1987	2,629	46.7	4,365	115.6	6,994	74.4	1,507	26.8	2,856	75.6
1988	2,876	50.9	4,847	121.6	7,723	80.2	1,547	27.4	2,949	74.0
1989	2,755	50.9	5,265	121.8	8,020	82.3	1,519	28.0	3,331	77.1
Change Between 1975 and 1980	126	---	1441	---	1567	13.5	-93	---	545	---
% Change Between 1975 and 1980	3%	---	28%	---	18%	17%	-5%	---	16%	---
Change Between 1980 and 1982	-866	-9.8	-1244	-22.0	-2110	-14.3	-309	-3.0	-566	-9.2
% Change Between 1980 and 1982	-23%	-17%	-19%	-15%	-20%	-15%	-17%	-11%	-15%	-11%
Change Between 1982 and 1986	-442	-6.4	-1061	-11.7	-1503	-10.2	-98	-1.1	-526	-3.9
% Change Between 1982 and 1986	-15%	-13%	-20%	-10%	-18%	-13%	-7%	-5%	-16%	-5%
Change Between 1986 and 1989	219	7.8	994	13.5	1213	13.1	151	4.8	540	6.3
% Change Between 1986 and 1989	9%	18%	23%	12%	18%	19%	11%	21%	19%	9%
Change Between 1988 and 1989	-121	-0.1	418	0.2	297	2.1	-28	0.6	382	3.1
% Change Between 1988 and 1989	-4%	0%	9%	0%	4%	3%	-2%	2%	13%	4%
Between 1980 and 1989	-1089	-8.5	-1311	-20.1	-2400	-11.4	-256	0.6	-552	-6.7
% Change Between 1980 and 1989	-28%	-14%	-20%	-14%	-23%	-12%	-14%	2%	-14%	-8%

Note: Comparison years are chosen to reflect changes in age subgroupings in relation to the points at which there were shifts in overall trends: 1980, 1982, 1986.
-- Data not available.
All rates are per 1,000 females.

TABLE 9-1. OREGON PREGNANCIES FOR TEENS 15-19, 1975-1989 (CONTINUED)

ABORTIONS 1/								
15 to 19		15 to 17		18 to 19		15 to 19		Age Not Stated
Number	Rate	Number	Rate	Number	Rate	Number	Rate	
5,356	50.1	1,443	---	1,443	---	2,886	27.0	30
5,206	47.2	1,850	---	1,797	---	3,647	33.1	23
5,367	48.3	2,046	---	2,114	---	4,160	37.4	14
5,303	47.4	2,060	---	2,208	---	4,268	38.1	25
5,588	49.3	2,003	---	2,272	---	4,275	37.7	33
5,544	48.8	2,012	---	2,486	---	4,498	39.6	34
5,658	50.9	2,069	31.9	2,693	58.1	4,762	42.9	903
5,483	51.5	1,849	30.0	2,374	53.1	4,223	39.7	1,541
4,783	45.7	1,512	25.1	2,015	45.3	3,527	33.7	2,091
4,375	42.8	1,297	21.9	1,845	42.9	3,142	30.8	1,850
4,245	42.5	1,312	22.3	1,813	44.2	3,125	31.3	1,700
4,136	42.8	1,282	21.7	1,715	45.6	2,997	31.0	737
4,159	42.3	1,168	19.8	1,480	37.5	2,648	26.9	114
4,363	46.4	1,122	19.9	1,509	40.0	2,631	28.0	47
4,496	46.7	1,329	23.5	1,898	47.6	3,227	33.5	50
4,850	49.8	1,236	22.8	1,934	44.7	3,170	32.5	240
452	3.7	219	---	896	---	1115	9.8	
9%	8%	12%	---	50%	---	31%	30%	
-875	-5.2	-557	-6.8	-678	-12.8	-1235	-9.1	
-15%	-10%	-27%	-21%	-25%	-22%	-26%	-21%	
-624	-3.4	-344	-5.3	-535	-7.8	-879	-6.8	
-13%	-7%	-23%	-21%	-27%	-17%	-25%	-20%	
691	7.5	68	3.0	454	7.2	522	5.6	
17%	18%	6%	15%	31%	19%	20%	21%	
354	3.1	-93	-0.7	36	-2.9	-57	-1.0	
8%	7%	-7%	-3%	2%	-6%	-2%	-3%	
-808	-1.1	-833	-9.1	-759	-13.4	-1592	-10.3	
-14%	-2%	-40%	-29%	-28%	-23%	-33%	-24%	

1/ Abortion data based on Oregon occurrence for Oregon residents. Excludes Oregon teens who went to other states to obtain an abortion. Original "age not stated" data included to show magnitude of missing data from year to year. A proportion of these "not stated" were added into the abortion counts for the age groups in this state.

TABLE 9-2. OREGON PREGNANCIES FOR TEENS UNDER 15, 1974-1989

YEAR	PREGNANCIES		BIRTHS		ABORTIONS 1/		LIVE BIRTHS
	Number	Rate	Number	Rate	Number	Rate	Percent 2/
1974	191	--	67	--	124	--	35.1%
1975	216	2.1	67	0.6	149	1.4	31.0%
1976	221	2.2	67	0.7	154	1.5	30.3%
1977	209	2.1	69	0.7	140	1.4	33.0%
1978	174	1.7	72	0.7	102	1.0	41.4%
1979	201	2.0	70	0.7	131	1.3	34.8%
1980	203	2.1	71	0.7	132	1.3	35.0%
1981	158	1.6	61	0.6	97	1.0	38.6%
1982	157	1.4	52	0.5	105	1.1	33.1%
1983	135	1.4	52	0.5	83	0.9	38.5%
1984	134	1.4	56	0.6	78	0.8	41.8%
1985	143	1.6	42	0.5	101	1.1	29.4%
1986	145	1.7	64	0.7	81	0.9	44.1%
1987	115	1.3	59	0.7	56	0.6	51.3%
1988	121	1.3	57	0.6	64	0.7	47.1%
1989	132	1.4	68	0.7	64	0.7	51.5%
Change Between 1975 and 1980	-13	-0.0	4	0.1	-17	-0.1	
% Change Between 1975 and 1980	-6%	-2%	6%	11%	-11%	-7%	
Change Between 1980 and 1982	-46	-0.6	-19	-0.1	-27	-0.2	
% Change Between 1980 and 1982	-23%	-32%	-27%	-26%	-20%	-20%	
Change Between 1982 and 1986	-12	0.3	12	0.2	-24	-0.1	
% Change Between 1982 and 1986	-8%	19%	23%	38%	-23%	-13%	
Change Between 1986 and 1989	-13	-0.2	4	-0.0	-17	-0.2	
% Change Between 1986 and 1989	-9%	-15%	6%	-1%	-21%	-26%	
Change Between 1980 and 1989	-71	-0.6	-3	0.0	-68	-0.6	
% Change Between 1980 and 1989	-35%	-31%	-4%	2%	-52%	-49%	

1/ Abortion data based on Oregon occurrence for Oregon residents. Excludes Oregon teens who went to other states to obtain an abortion.

2/ Percentage of pregnancies resulting in a live birth.

-- Data not available.

All rates per one thousand females 10-14 years.

TABLE 9-3. BIRTHS TO TEENS BY RACE FOR MAJOR HEALTH INDICATORS, OREGON RESIDENCE, 1989

RACE/ETHNICITY AND AGE OF MOTHER	TOTAL BIRTHS	ADEQUACY OF PRENATAL CARE					
		INADEQUATE		ADEQUATE		NOT STATED	
		2499 GR OR LESS	2500+ GRAMS	2499 GR OR LESS	2500+ GRAMS	2499 GR OR LESS	2500+ GRAMS
TOTAL							
15-19	4,850	86	567	230	3,950	4	11
15-17	1,519	35	216	64	1,200	-	4
18-19	3,331	51	351	166	2,750	4	7
ETHNICITY/RACE							
NON-HISPANIC	4,421	78	477	217	3,633	4	10
15-17	1,368	33	181	61	1,089	-	4
18-19	3,053	45	296	156	2,544	4	6
WHITE	4,011	65	401	188	3,344	4	7
15-17	1,211	24	151	50	982	-	4
18-19	2,800	41	250	138	2,362	4	3
BLACK	199	9	40	17	131	-	2
15-17	89	7	16	8	58	-	-
18-19	110	2	24	9	73	-	2
INDIAN	138	1	24	7	106	-	-
15-17	47	-	12	2	33	-	-
18-19	91	1	12	5	73	-	-
OTHER NON-WHITE	70	3	12	5	49	-	1
15-17	19	2	2	1	14	-	-
18-19	51	1	10	4	35	-	1
UNKNOWN	3	-	-	-	3	-	-
15-17	2	-	-	-	2	-	-
18-19	1	-	-	-	1	-	-
HISPANIC	429	8	90	13	317	-	1
15-17	151	2	35	3	111	-	-
18-19	278	6	55	10	206	-	1
WHITE	404	8	84	12	299	-	1
15-17	145	2	31	2	110	-	-
18-19	259	6	53	10	189	-	1
INDIAN	11	-	4	1	6	-	-
15-17	3	-	2	1	-	-	-
18-19	8	-	2	-	6	-	-
OTHER NON-WHITE	7	-	-	-	7	-	-
15-17	1	-	-	-	1	-	-
18-19	6	-	-	-	6	-	-
UNKNOWN	7	-	2	-	5	-	-
15-17	2	-	2	-	-	-	-
18-19	5	-	-	-	5	-	-

NOTE: 2 UNKNOWN BIRTHWEIGHTS EXCLUDED

TABLE 9-4. BIRTHS TO TEENS 15-19 BY MARITAL STATUS, ETHNICITY/RACE AND AGE FOR MAJOR HEALTH INDICATORS, OREGON RESIDENCE, 1989

MARITAL STATUS ETHNICITY/RACE AND AGE OF MOTHER	TOTAL BIRTHS	LOW WEIGHT BIRTHS	RATE OF LBW	INADE-QUATE CARE	RATE OF INADE-QUATE CARE
Total					
15-19	4,850	320	66.0	653	134.6
15-17	1,519	99	65.2	251	165.2
18-19	3,331	221	66.4	402	120.7
WHITE (NON-HISPANIC)	4,011	257	64.1	466	116.2
15-17	1,209	74	61.2	174	143.9
NOT MARRIED	973	65	66.8	153	157.2
MARRIED	236	9	38.1	21	89.0
18-19	2,800	183	65.4	291	103.9
NOT MARRIED	1,604	111	69.3	193	120.3
MARRIED	1,196	72	60.2	98	81.9
HISPANIC (ALL RACES)	430	21	48.8	98	227.9
15-17	151	5	33.1	36	238.4
NOT MARRIED	101	4	39.6	24	237.6
MARRIED	50	1	20.0	12	240.0
18-19	278	16	57.6	61	219.4
NOT MARRIED	153	9	58.8	32	209.2
MARRIED	125	7	56.0	29	232.0
AFRICAN AMERICAN	199	26	130.7	49	246.2
15-17	89	15	168.5	23	258.4
NOT MARRIED	86	13	151.2	23	267.4
MARRIED	3	2	-	0	-
18-19	110	11	100.0	26	236.4
NOT MARRIED	98	10	102.0	24	244.9
MARRIED	12	1	-	2	-
INDIAN	138	8	58.0	25	181.2
15-17	47	2	-	12	255.3
NOT MARRIED	45	2	-	11	244.4
MARRIED	2	0	-	1	-
18-19	91	6	65.9	13	142.9
NOT MARRIED	65	4	61.5	7	-
MARRIED	26	2	-	6	-
OTHER NON-WHITE	69	8	115.9	15	217.4
15-17	18	3	-	4	-
NOT MARRIED	15	2	-	3	-
MARRIED	3	1	-	1	-
18-19	51	5	98.0	11	215.7
NOT MARRIED	38	1	-	8	-
MARRIED	13	4	-	3	-
RACE/ETHNICITY UNKNOWN	3	0	-	0	-
15-17					
NOT MARRIED	2	0	-	0	-
18-19					
MARRIED	1	0	-	0	-

TABLE 9-5. PREGNANCY RATES OF TEEN MOTHERS BY COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	TOTAL PREGNANCIES (ALL AGES)	MOTHER'S AGE				15-17 PREGNANCY RATE 1/	18-19 PREGNANCY RATE 1/	15-19 PREGNANCY RATE 1/
		UNDER 15	15-17	18-19	15-19			
TOTAL	53,986	136	2,751	5,271	8,022	50.8	122.0	82.4
BAKER	239	-	17	27	44	56.3	113.9	81.6
BENTON	1,157	1	38	85	123	30.8–	33.7–	32.8–
CLACKAMAS	4,688	6	228	390	618	35.9–	90.1–	57.8–
CLATSOP	587	1	27	60	87	42.3	112.9	74.5
COLUMBIA	655	1	31	80	111	34.3–	121.0	71.1
COOS	991	4	55	119	174	45.8	137.7	84.2
CROOK	258	-	20	25	45	63.1	120.7	85.9
CURRY	255	-	16	26	42	56.1	101.2	77.5
DESCHUTES	1,342	2	59	115	174	39.0–	107.9	67.5–
DOUGLAS	1,614	8	105	159	264	49.4	107.7	73.3
GILLIAM	26	-	-	1	1	—	—	—
GRANT	132	-	7	13	20	36.4	107.4	63.9
HARNEY	131	-	7	11	18	36.3	113.4	62.0
HOOD RIVER	343	2	21	31	52	69.5	94.9	93.7
JACKSON	2,549	6	111	294	405	37.0–	137.0	78.8
JEFFERSON	327	1	25	34	59	89.3+	204.8+	132.3+
JOSEPHINE	1,051	3	67	132	199	57.5	138.8	94.1
KLAMATH	1,005	2	69	117	186	56.0	124.5	85.6
LAKE	119	-	10	12	22	58.2	93.1	73.1
LANE	5,108	10	242	492	734	45.4	102.0–	72.3–
LINCOLN	649	2	37	64	101	57.0	119.8	85.3
LINN	1,612	4	102	190	292	52.2	138.8	87.9
MALHEUR	513	-	27	72	99	44.8	189.4+	100.8
MARION	4,489	15	288	466	754	67.0+	148.4+	101.4+
MORROW	137	1	5	14	19	30.3	115.7	66.4
MULTNOMAH	13,431	41	676	1,312	1,988	76.9+	172.2+	121.2+
POLK	732	1	45	77	122	49.2	104.0	73.7
SHERMAN	19	-	1	3	4	—	—	—
TILLAMOOK	317	1	16	26	42	43.4	88.4	63.5
UMATILLA	1,194	6	73	159	232	58.8	179.4+	109.1+
UNION	432	1	30	49	79	55.7	145	90.2
WALLOWA	97	-	5	12	17	36.8	94.5	64.6
WASCO	351	3	25	41	66	56.5	133.6	88.1
WASHINGTON	6,220	9	216	439	655	36.3–	94.9–	61.9–
WHEELER	12	-	-	1	1	—	—	—
YAMHILL	1,204	5	50	123	173	38.2–	136.9	78.4

1/ ALL RATES PER 1,000 FEMALES, + OR – INDICATES A STATISTICALLY SIGNIFICANT DIFFERENCE FROM TOTAL RATE.

- QUANITY IS ZERO, OR IN THE CASE OF RATES, THE POPULATION OF FEMALES IS TOO SMALL TO CALCULATE RELIABLE RATES. (SEE TECHNICAL NOTES.)

NOTE: INCLUDES ALL REPORTED ABORTIONS OBTAINED OUT OF STATE BY OREGON RESIDENTS. BECAUSE SOME STATES--E.G. CALIFORNIA--DO NOT RECORD DATA ON RESIDENCE, ALL OUT OF STATE ABORTIONS ARE NOT INCLUDED.

TABLE 9-6. BIRTH RATES OF TEEN MOTHERS BY COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	TOTAL BIRTHS	MOTHER'S AGE				15 -17 BIRTH RATE 1/	18 -19 BIRTH RATE 1/	15 -19 BIRTH RATE 1/
		UNDER 15	15-17	18-19	15-19			
TOTAL.....	41,223	68	1,519	3,331	4,850	28.0	77.1	49.8
BAKER.....	185	-	10	21	31	33.1	88.6	57.5
BENTON.....	853	-	21	33	54	17.0-	13.1-	14.4-
CLACKAMAS..	3,653	-	95	214	309	15.0-	49.4-	28.9-
CLATSOP....	459	-	15	45	60	23.5	84.7	51.4
COLUMBIA...	534	1	14	58	72	15.5-	87.7	46.1
COOS.....	777	1	37	89	126	30.8	103.0+	61.0
CROOK.....	226	-	13	24	37	41.0	115.9	70.6
CURRY.....	204	-	11	21	32	38.6	81.7	59.0
DESCHUTES..	1,027	2	34	75	109	22.5	70.4	42.3
DOUGLAS....	1,354	5	69	125	194	32.5	84.7	53.9
GILLIAM....	20	-	-	1	1	-	-	-
GRANT.....	116	-	2	11	13	10.4-	90.9	41.5
HARNEY.....	112	-	6	9	15	31.1	92.8	51.7
HOOD RIVER.	289	2	11	24	35	36.4	94.9	63.1
JACKSON....	1,981	4	71	188	259	23.7	87.6	50.4
JEFFERSON..	278	1	19	30	49	67.9+	180.7+	109.9+
JOSEPHINE..	808	2	38	92	130	32.6	96.7	61.5+
KLAMATH....	784	1	43	78	121	34.9	83.0	55.7
LAKE.....	107	-	6	9	15	34.9	69.8	49.8
LANE.....	3,930	5	148	300	448	27.8	62.2-	44.1-
LINCOLN....	507	1	18	47	65	27.7	88.0	54.9
LINN.....	1,350	3	77	137	214	39.4+	100.1+	64.4+
MALHEUR....	463	-	20	58	78	33.2	152.6+	79.4+
MARION.....	3,624	7	190	359	549	44.2+	114.3+	73.8+
MORROW.....	121	-	3	13	16	18.2	107.4	55.9
MULTNOMAH..	9,068	21	297	679	976	33.8+	89.1+	59.5+
POLK.....	651	1	32	63	95	35.0	85.1	57.4
SHERMAN....	18	-	1	2	3	-	-	-
TILLAMOOK..	235	-	8	16	24	21.7	54.4	36.3
UMATILLA...	957	3	54	106	160	43.5+	119.6+	75.2+
UNION.....	343	1	16	36	52	29.7	106.5	59.4
WALLOWA....	77	-	3	7	10	22.1	55.1	38.0
WASCO.....	266	1	12	26	38	27.1	84.7	50.7
WASHINGTON.	4,855	4	91	251	342	15.3-	54.3-	32.3-
WHEELER....	12	-	-	1	1	-	-	-
YAMHILL....	979	2	34	83	117	26.0	92.4	53.0

1/ ALL RATES PER 1,000 FEMALES
- QUANTITY IS ZERO

TABLE 9-7. ABORTION RATES OF TEENS BY COUNTY OF RESIDENCE
OREGON 1989

COUNTY OF RESIDENCE	TOTAL ABORTIONS	MOTHER'S AGE				15 -17 ABORTION RATE 1/	18 -19 ABORTION RATE 1/	15 -19 ABORTION RATE 1/
		UNDER 15	15-17	18-19	15-19			
TOTAL.....	12,768	68	1,232	1,940	3,172	22.7	44.9	32.6
BAKER.....	54	-	7	6	13	23.2	25.3	24.1
BENTON.....	304	1	17	52	69	13.8-	20.6-	18.4-
CLACKAMAS..	1,035	6	133	176	309	20.9	40.7	28.9
CLATSOP....	128	1	12	15	27	18.8	28.2	23.1
COLUMBIA...	121	-	17	22	39	18.8	33.3	25.0
COOS.....	214	3	18	30	48	15.0	34.7-	23.2
CROOK.....	32	-	7	1	8	22.1	4.8-	15.3-
CURRY.....	51	-	5	5	10	17.5	19.5-	18.5-
DESCHUTES..	315	-	25	40	65	16.5	37.5	25.2
DOUGLAS....	260	3	36	34	70	16.9	23.0-	19.4-
GILLIAM....	6	-	-	-	-	-	-	-
GRANT.....	16	-	5	2	7	26.0	16.5-	22.4
HARNEY.....	19	-	1	2	3	5.2-	20.6	10.3-
HOOD RIVER.	54	-	10	7	17	33.1	27.7	30.6
JACKSON....	568	2	40	106	146	13.3	49.4	28.4
JEFFERSON..	49	-	6	4	10	21.4	24.1	22.4
JOSEPHINE..	243	1	29	40	69	24.9	42.1	32.6
KLAMATH....	221	1	26	39	65	21.1	41.5	29.9
LAKE.....	12	-	4	3	7	23.3	23.3	23.3
LANE.....	1,178	5	94	192	286	17.6-	39.8	28.2-
LINCOLN....	142	1	19	17	36	29.3	31.8	30.4
LINN.....	262	1	25	53	78	12.8-	38.7	23.5-
MALHEUR....	50	-	7	14	21	11.6-	36.8	21.4-
MARION.....	865	8	98	107	205	22.8	34.1-	27.6-
MORROW.....	16	1	2	1	3	12.1	8.3-	10.5-
MULTNOMAH..	4,363	20	379	633	1,012	43.1+	83.1+	61.7+
POLK.....	81	-	13	14	27	14.2	18.9-	16.3-
SHERMAN....	1	-	-	1	1	-	33.3	15.6
TILLAMOOK..	82	1	8	10	18	21.7	34.0	27.2
UMATILLA...	237	3	19	53	72	15.3	59.8	33.9
UNION.....	89	-	14	13	27	26.0	38.5	30.8
WALLOWA....	20	-	2	5	7	14.7	39.4	26.6
WASCO.....	85	2	13	15	28	29.4	48.9	37.4
WASHINGTON.	1,365	5	125	188	313	21.0	40.6	29.6
WHEELER....	-	-	-	-	-	-	-	-
YAMHILL....	225	3	16	40	56	12.2-	44.5	25.4

1/ ALL RATES PER 1,000 FEMALES

INCLUDES ALL REPORTED ABORTIONS OBTAINED OUT-OF-STATE BY OREGON RESIDENTS. BECAUSE SOME STATES --E.G. CALIFORNIA -- DO NOT RECORD DATA ON RESIDENCE, ALL OUT-OF-STATE ABORTIONS ARE NOT INCLUDED.

TABLE 9-8. TEENS 15-19: BIRTHS, LEVEL OF PRENATAL CARE AND LOW BIRTH WEIGHT RATES BY COUNTY OF RESIDENCE, OREGON, 1989

COUNTY OF RESIDENCE	TOTAL BIRTHS	BIRTH RATE 1/	LOW WEIGHT BIRTHS	RATE OF LBW 2/	INADE-QUATE CARE	RATE OF INADE-QUATE CARE 2/
TOTAL	4,850	49.8	320	66.0	653	134.6
BAKER	31	57.5	1	32.3	1	32.3
BENTON	54	14.4	3	55.6	6	111.1
CLACKAMAS	309	28.9	19	61.9	49	158.6
CLATSOP	60	51.4	4	66.7	6	100.0
COLUMBIA	72	46.1	3	41.7	11	152.8
COOS	126	61.0	8	63.5	25	198.4
CROOK	37	70.6	2	54.1	0	-
CURRY	32	59.0	0	-	4	125.0
DESCHUTES	109	42.3	6	55.0	15	137.6
DOUGLAS	194	53.9	13	67.0	14	72.2
GILLIAM	1	-	0	-	0	-
GRANT	13	41.5	0	-	0	-
HARNEY	15	51.7	0	-	1	66.7
HOOD RIVER	35	63.1	1	28.6	3	85.7
JACKSON	259	50.4	14	54.1	29	112.0
JEFFERSON	49	109.9	0	-	7	142.9
JOSEPHINE	130	61.5	8	61.5	7	53.8
KLAMATH	121	55.7	7	57.9	16	132.2
LAKE	15	49.8	1	66.7	2	133.3
LANE	448	44.1	32	71.4	61	136.2
LINCOLN	65	54.9	5	76.9	8	123.1
LINN	214	64.4	11	51.4	27	126.2
MALHEUR	78	79.4	4	51.3	14	179.5
MARION	549	73.8	37	67.4	87	158.5
MORROW	16	55.9	1	62.5	2	125.0
MULTNOMAH	976	59.5	91	93.2	163	167.0
POLK	95	57.4	4	42.1	5	52.6
SHERMAN	3	46.9	0	-	0	-
TILLAMOOK	24	36.3	2	83.3	3	125.0
UMATILLA	160	75.2	8	50.0	16	100.0
UNION	52	59.4	5	96.2	2	38.5
WALLOWA	10	38.0	0	.0	1	100.0
WASCO	38	50.7	1	26.3	3	78.9
WASHINGTON	342	32.3	21	61.4	55	160.8
WHEELER	1	-	0	-	0	-
YAMHILL	117	53.0	8	68.4	10	85.5

1/ RATES NOT CALCULATED FOR AREAS WHERE LESS THAN 10 BIRTHS OCCURRED. SMALL NUMBERS PRODUCE RATES WHICH ARE ERRATIC AND UNRELIABLE. RATES PER 1,000 FEMALES

2/ ALL RATES PER 1,000 BIRTHS

TABLE 9-9. BIRTH OUTCOMES OF INFANTS BY AGE OF MOTHER, OREGON RESIDENTS, 1989

BIRTH OUTCOMES	MOTHER'S AGE									
	TOTAL BIRTHS	UNDER 15	15	16	17	18	19	15-19	20 +	N.S.
Total	41,223	68	183	448	888	1,463	1,868	4,850	36,295	10
BIRTH WEIGHT 1/										
1499 GR. OR LESS	367	2	1	9	12	17	28	67	298	-
< 28 WEEKS	121	-	-	5	2	8	9	24	97	-
28-36 WEEKS	194	-	1	3	8	7	11	30	164	-
37-41 WEEKS	13	-	-	-	-	-	2	2	11	-
42 + WEEKS	1	-	-	-	-	-	-	-	1	-
NOT STATED	38	2	-	1	2	2	6	11	25	-
1500-2499 GRAMS	1,785	6	5	21	51	93	83	253	1,525	1
< 28 WEEKS	9	-	-	1	-	-	1	2	7	-
28-36 WEEKS	780	2	4	10	19	33	33	99	679	-
37-41 WEEKS	776	2	1	7	18	41	41	108	666	-
42 + WEEKS	103	-	-	1	7	9	4	21	82	-
NOT STATED	117	2	-	2	7	10	4	23	91	1
2500+ GRAMS	39,049	60	177	418	825	1,351	1,757	4,528	34,453	8
< 28 WEEKS	27	1	-	-	-	3	1	4	21	1
28-36 WEEKS	1,453	4	13	21	44	73	76	227	1,222	-
37-41 WEEKS	27,960	36	113	264	502	863	1,132	2,874	25,048	2
42 + WEEKS	7,918	16	34	106	220	324	441	1,125	6,776	1
NOT STATED	1,691	3	17	27	59	88	107	298	1,386	4
5 MIN. APGAR										
0-3	178	-	-	2	3	9	14	28	150	-
4-6	531	3	1	16	17	33	32	99	428	1
7-10	40,274	65	181	424	862	1,414	1,810	4,691	35,511	7
NOT STATED	240	-	1	6	6	7	12	32	206	2
TOBACCO USED	9,731	22	51	173	306	512	626	1,668	8,038	3
ALCOHOL USED	3,007	6	8	18	38	67	105	236	2,765	-
BIRTH ORDER										
1ST	16,153	65	174	400	742	1,115	1,322	3,753	12,331	4
2ND	13,368	3	9	45	127	296	439	916	12,449	-
3RD	7,049	-	-	2	17	50	92	161	6,885	3
4TH	2,800	-	-	1	2	1	11	15	2,785	-
5 +	1,853	-	-	-	-	1	4	5	1,845	3
PRENATAL CARE										
NO CARE	493	3	3	11	11	32	30	87	403	-
LITTLE OR LATE	2,527	22	29	69	128	161	179	566	1,937	2
ADEQUATE	38,079	43	150	366	748	1,264	1,654	4,182	33,847	7
UNKNOWN	124	-	1	2	1	6	5	15	108	1

1/ EXCLUDES 2 UNKNOWN BIRTHWEIGHTS
- QUANTITY IS ZERO

TABLE 9-10. DEMOGRAPHIC CHARACTERISTICS OF MOTHER BY AGE, OREGON RESIDENTS, 1989

DEMOGRAPHICS OF MOTHER	MOTHER'S AGE									
	TOTAL BIRTHS	UNDER 15	15	16	17	18	19	15-19	20 +	N.S.
Total	41,223	68	183	448	888	1,463	1,868	4,850	36,295	10
ETHNICITY/RACE										
WHITE (NON-HISPANIC)	36,210	49	131	360	720	1,206	1,594	4,011	32,143	7
HISPANIC (ALL RACES)	2,234	5	24	39	89	133	145	430	1,797	2
AFRICAN AMERICAN	899	7	15	31	43	51	59	199	693	-
INDIAN	656	5	10	12	25	48	43	138	513	-
OTHER NON-WHITE	1,192	2	3	5	10	24	27	69	1,121	-
UNKNOWN	32	-	-	1	1	1	-	3	28	1
MARITAL STATUS										
UNMARRIED	10,437	67	170	384	668	950	1,008	3,180	7,185	5
MARRIED	30,779	1	13	63	218	513	860	1,667	29,107	4
UNKNOWN	7	-	-	1	2	-	-	3	3	1
EDUCATION										
GRADE SCHOOL	1,587	54	49	65	101	116	108	439	1,092	2
9TH GRADE	1,364	13	84	116	142	128	111	581	770	-
10TH GRADE	2,578	-	43	186	228	270	218	945	1,633	-
11TH GRADE	3,027	-	2	55	273	314	331	975	2,051	1
12TH GRADE	15,693	-	-	20	127	575	945	1.667	14,023	3
SOME COLLEGE	9,488	-	-	-	3	35	129	167	9,320	1
COLLEGE	4,240	-	-	-	-	-	-	-	4,240	-
POST-BACCALAUREATE	2,562	-	-	-	-	-	-	-	2,562	-
UNKNOWN	684	1	5	6	14	25	26	76	604	3
CHILDREN NOW ALIVE										
ONE	13,557	2	9	45	125	295	440	914	12,641	-
TWO	7,020	-	-	2	13	48	83	146	6,871	3
THREE	2,695	-	-	1	2	1	9	13	2,682	-
FOUR +	1,599	-	-	-	-	-	2	2	1,596	1
PRENATAL CARE										
INADEQUATE	3,020	25	32	80	139	193	209	653	2,340	2
ADEQUATE	38,079	43	150	366	748	1,264	1,654	4,182	33,847	7
UNKNOWN	124	-	1	2	1	6	5	15	108	1
SOURCE OF PAYMENT										
INSURANCE	24,910	11	45	105	218	359	536	1,263	23,636	-
SELF-PAY	3,919	9	29	53	123	147	223	575	3,334	1
PUBLIC ASST	11,128	44	103	272	515	895	1,038	2,823	8,259	2
OTHER COVERAGE	483	3	4	12	22	34	35	107	373	-
UNK COVERAGE	59	-	-	1	-	5	1	7	51	1

- QUANTITY IS ZERO

TABLE 9-11. DEMOGRAPHIC CHARACTERISTICS OF ABORTION PATIENTS BY AGE
OREGON RESIDENTS, 1989

DEMOGRAPHICS OF PATIENT	TOTAL ABORTIONS	AGE UNDER 15	15	16	17	18	19	15-19
TOTAL	12,542	68	209	390	633	961	979	3,172
ETHNICITY/RACE								
WHITE (NON-HISPANIC)	10,969	49	176	350	552	854	866	2,798
HISPANIC (ALL RACES)	350	4	-	7	21	26	22	76
AFRICAN AMERICAN	525	7	16	13	32	37	37	135
INDIAN	113	1	7	4	6	9	10	36
OTHER NON-WHITE	340	1	4	10	9	16	25	64
UNKNOWN	245	6	6	6	13	19	19	63
MARITAL STATUS								
MARRIED	2,206	1	2	5	11	35	45	98
SINGLE	9,954	62	201	376	606	900	905	2,988
UNKNOWN	382	5	6	9	16	26	29	86
EDUCATION								
GRADE SCHOOL	216	43	25	10	7	11	5	58
9TH GRADE	399	10	95	66	27	26	18	232
10TH GRADE	848	3	62	187	97	61	56	463
11TH GRADE	1,256	-	17	102	328	175	80	701
12TH GRADE	5,171	-	-	11	147	558	543	1,259
SOME COLLEGE	2,956	-	-	1	7	101	233	343
COLLEGE	735	-	-	-	-	-	1	1
POST-BACCALAUREATE	961	9	9	13	20	30	43	115
CHILDREN NOW ALIVE								
ONE	2,756	1	7	18	51	129	173	378
TWO	2,079	1	-	-	7	23	37	67
THREE +	1,058	-	-	1	-	3	3	7
PREVIOUS ABORTIONS								
NONE	7,033	62	204	346	521	752	701	2,524
ONE	3,281	3	3	32	89	154	217	495
TWO	1,237	1	1	5	6	34	38	84
THREE +	683	-	-	-	4	6	5	15
NOT STATED	308	2	1	7	13	15	18	54
GESTATION								
EIGHT OR LESS	5,546	26	71	149	229	379	380	1,208
9-12	5,300	30	99	179	289	445	447	1,459
13-16	817	6	23	35	52	66	73	249
16+	879	6	16	27	63	71	79	256
CONTRACEPTIVE USED								
NONE USED	8,148	57	168	296	436	682	685	2,267
PILLS USED	1,002	2	7	31	46	76	77	237
CONDOM USED	1,751	7	32	43	119	150	155	499
OTHER CONTRACEPTIVE	1,590	2	2	19	31	51	55	158
MEDICAL PROCEDURE								
SUCTION CURETTAGE	11,114	63	174	332	532	846	846	2,730
DILATION EVACUATION	1,256	5	35	51	92	101	121	400
OTHER SPECIFIED	171	-	-	7	9	14	12	42

- QUANTITY IS ZERO

POPULATION

TABLE 10-1. POPULATION DISTRIBUTION BY AGE AND SEX, OREGON, 1950, 1960, 1970, AND 1975-1989

YEAR AND SEX	TOTAL	AGE GROUPS																	
		0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
1950	1,521,341	163,915	131,596	108,140	96,738	105,070	117,706	116,800	117,361	105,575	93,228	86,118	77,843	68,230	54,455	37,095	34,979[1]		6,492
M	772,776	83,614	67,244	55,528	47,652	51,469	57,940	57,930	59,391	54,452	48,574	44,802	40,426	36,027	28,498	19,085	17,143[1]		3,001
F	748,565	80,301	64,352	52,612	49,086	53,601	59,766	58,870	57,970	51,123	44,654	41,316	37,417	32,203	25,957	18,010	17,836[1]		3,491
1960	1,768,675	185,403	189,333	170,768	131,315	95,773	96,636	107,999	118,152	116,218	114,074	101,313	87,606	74,007	65,908	52,734	34,274	17,713	9,449
M	879,929	94,330	96,553	87,191	64,463	46,011	47,318	52,924	57,451	57,832	57,574	52,052	43,615	37,003	32,257	25,175	16,407	7,935	3,838
F	888,746	91,073	92,780	83,577	66,852	49,762	49,318	55,075	60,701	58,386	56,500	49,261	43,991	37,004	33,651	27,559	17,867	9,778	5,611
1970	2,091,385	164,060	194,345	211,284	203,362	162,638	138,978	115,599	107,832	117,950	124,395	118,996	110,739	94,408	75,601	60,321	44,263	27,900	18,714
M	1,023,952	83,836	99,274	107,664	100,952	75,549	68,827	57,764	52,738	57,790	60,407	58,563	54,576	45,809	35,886	26,956	18,946	11,249	7,166
F	1,067,433	80,224	95,071	103,620	102,410	87,089	70,151	57,835	55,094	60,160	63,988	60,433	56,163	48,599	39,715	33,365	25,317	16,651	11,548
1975	2,292,734	166,930	176,125	211,149	224,538	222,013	180,346	152,553	122,891	114,611	120,938	125,783	117,631	106,710	86,844	66,077	48,381	31,022	18,194
M	1,120,178	85,331	89,859	107,668	114,204	108,866	84,271	76,482	61,305	55,959	58,944	60,547	56,993	51,149	40,571	29,622	19,879	11,966	6,562
F	1,172,556	81,599	86,266	103,481	110,334	113,146	96,075	76,071	61,586	58,652	61,994	65,236	60,638	55,561	46,273	36,455	28,502	19,056	11,632
1976	2,341,750	172,424	175,344	209,303	226,690	229,608	190,936	160,657	128,823	116,345	120,577	126,254	119,290	108,763	89,328	67,880	49,383	31,706	18,439
M	1,143,803	88,143	89,456	106,720	115,506	113,285	89,543	79,900	64,416	56,927	58,761	60,694	57,565	51,978	41,610	30,365	20,234	12,124	6,576
F	1,197,947	84,281	85,888	102,583	111,184	116,323	101,393	80,757	64,407	59,418	61,816	65,560	61,725	56,785	47,718	37,515	29,149	19,582	11,863
1977	2,396,100	179,795	175,649	206,981	228,350	236,061	202,618	169,247	135,742	119,006	120,417	126,533	121,162	110,794	91,997	69,983	50,500	32,445	18,820
M	1,170,016	91,918	89,616	105,526	116,468	117,110	95,706	83,323	67,909	58,406	58,661	60,810	58,223	52,781	42,734	31,216	20,669	12,298	6,642
F	1,226,084	87,877	86,033	101,455	111,882	118,951	106,912	85,924	67,833	60,600	61,756	65,723	62,939	58,013	49,263	38,767	29,831	20,147	12,178
1978	2,472,000	191,405	179,233	206,478	231,143	241,353	217,906	182,004	145,922	124,002	120,688	126,506	123,112	112,545	94,626	71,986	51,100	32,763	19,227
M	1,207,195	97,767	91,305	105,112	117,886	120,554	103,730	88,303	72,747	61,020	58,722	60,815	58,979	53,507	44,054	32,229	21,178	12,437	6,848
F	1,264,805	93,638	87,928	101,366	113,257	120,799	114,176	93,701	73,175	62,982	61,966	65,691	64,133	59,038	50,572	39,757	29,922	20,326	12,399
1979	2,544,000	204,020	181,640	202,110	231,490	247,390	233,900	192,190	155,310	129,100	121,090	126,300	125,540	114,600	97,810	74,920	52,920	33,700	19,970
M	1,241,920	104,170	92,600	102,900	117,910	124,010	113,070	92,090	77,590	63,850	58,890	60,800	59,910	54,180	45,280	33,200	21,880	12,590	7,000
F	1,302,080	99,850	89,040	99,210	113,580	123,380	120,830	100,100	77,720	65,250	62,200	65,500	65,630	60,420	52,530	41,720	31,040	21,110	12,970
1980	2,632,663	197,951	189,293	202,546	225,814	237,788	253,472	227,565	170,694	133,101	119,249	124,344	129,886	117,676	105,165	79,367	55,327	34,994	28,431
M	1,296,355	101,815	96,965	103,594	114,690	117,800	126,867	115,071	86,047	67,073	58,948	60,356	62,001	56,031	49,287	35,404	22,747	12,802	8,857
F	1,336,308	96,136	92,328	98,952	111,124	119,988	126,605	112,494	84,647	66,028	60,301	63,988	67,885	61,645	55,878	43,963	32,580	22,192	19,574
1981	2,660,435	203,594	184,616	203,543	217,750	234,053	252,725	241,926	179,636	140,523	118,937	122,571	128,335	119,708	107,390	83,548	56,478	36,576	28,526
M	1,310,480	104,334	94,477	104,341	111,275	115,874	126,043	122,079	90,690	70,811	59,188	59,493	61,398	56,675	50,396	37,441	23,405	13,444	9,116
F	1,349,955	99,260	90,139	99,202	106,475	118,179	126,682	119,847	88,946	69,712	59,749	63,078	66,937	63,033	56,994	46,107	33,073	23,132	19,410
1982	2,656,185	205,442	184,989	200,663	214,621	225,266	245,516	240,579	191,815	145,302	119,328	118,393	124,286	121,205	108,828	87,242	122,710[2]		
M	1,308,018	104,536	94,896	102,787	110,004	112,537	121,444	121,229	96,778	73,205	59,541	57,526	59,397	57,238	50,920	39,287	46,693[2]		
F	1,348,167	100,906	90,093	97,876	104,617	112,729	124,072	119,350	95,037	72,097	59,787	60,867	64,889	63,967	57,908	47,955	76,017[2]		
1983	2,634,993	200,502	185,101	195,306	208,383	221,102	233,950	236,452	197,788	150,869	119,798	113,707	119,496	121,107	110,442	90,061	130,929[2]		
M	1,292,711	102,231	95,121	99,869	106,267	110,629	115,627	118,621	99,538	75,798	59,704	55,279	57,032	56,925	51,386	40,321	48,363[2]		
F	1,342,282	98,271	89,980	95,437	102,116	110,473	118,323	117,831	98,250	75,071	60,094	58,428	62,464	64,182	59,056	49,740	82,566[2]		
1984	2,660,000	201,561	189,002	189,940	203,518	224,882	227,497	240,883	208,395	159,323	124,516	113,420	118,076	118,774	111,029	93,393	135,791[2]		
M	1,307,023	102,591	97,255	97,250	103,737	113,484	112,302	120,975	105,194	80,218	62,374	55,513	56,574	55,671	51,445	41,826	50,614[2]		
F	1,352,977	98,970	91,747	92,690	99,781	111,398	115,195	119,908	103,201	79,105	62,142	57,907	61,502	63,103	59,584	51,567	85,177[2]		

1. Includes ages 75-84. 2. Includes ages 75 and over.

TABLE 10-1. POPULATION DISTRIBUTION BY AGE AND SEX, OREGON, 1950, 1960, 1970, AND 1975-1989 (CONTINUED)

YEAR AND SEX	TOTAL	AGE GROUPS															
		0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+
1985	2,675,800	198,995	195,271	184,845	197,808	215,641	227,827	243,741	222,457	165,140	128,521	112,530	115,551	118,327	113,657	93,372	142,117
M	1,313,949	101,338	100,344	94,619	101,111	109,413	112,518	121,577	112,168	83,090	64,509	55,332	55,429	55,393	52,316	41,694	53,098
F	1,361,851	97,657	94,927	90,226	96,697	106,228	115,309	122,164	110,289	82,050	64,012	57,198	60,122	62,934	61,341	51,678	89,019
1986	2,659,500	192,981	198,234	178,510	201,362	218,875	215,376	230,757	226,179	170,171	132,244	110,782	112,555	115,440	113,886	94,884	147,262
M	1,306,352	99,387	101,905	91,311	103,035	111,407	106,184	114,740	113,865	85,721	66,366	54,767	53,979	54,110	52,262	42,354	54,957
F	1,353,148	93,594	96,329	87,199	98,327	107,468	109,192	116,017	112,314	84,450	65,878	56,015	58,576	61,330	61,624	52,530	92,305
1987	2,690,000	192,835	200,887	177,142	192,540	202,447	221,131	240,492	233,108	185,303	139,735	113,692	111,266	114,319	116,900	94,415	153,788
M	1,319,182	98,346	102,721	90,813	59,308	103,541	109,192	119,268	117,116	93,245	70,128	56,357	53,421	53,559	53,493	42,000	57,446
F	1,370,818	94,489	98,166	86,329	94,004	98,906	111,939	121,224	115,992	92,058	69,607	57,335	57,845	60,760	63,407	52,415	96,342
1988	2,741,000	192,567	203,622	185,233	196,610	199,752	222,959	240,352	238,871	196,152	148,261	117,137	110,863	114,273	118,350	97,002	158,996
M	1,343,473	98,209	103,999	95,157	100,306	102,116	111,083	118,915	119,769	98,570	74,365	58,090	53,296	53,527	53,905	42,965	59,201
F	1,397,527	94,358	99,623	90,076	96,304	97,636	111,876	121,437	119,102	97,582	73,896	59,047	57,567	60,746	64,445	54,037	99,795
1989	2,791,000	194,864	206,097	192,051	199,548	212,810	221,058	224,961	240,001	207,799	159,320	123,433	111,762	114,482	118,882	97,182	166,640
M	1,368,413	99,771	105,433	98,800	102,148	108,752	110,752	110,804	119,729	104,551	79,911	61,375	54,128	53,711	53,943	42,776	61,829
F	1,422,587	95,093	100,664	93,251	97,400	104,058	110,306	114,157	120,272	103,248	79,409	62,058	57,744	60,771	64,939	54,406	104,811

1950, 1960, 1970, 1980 are U.S. Census. All others are estimates provided by Center for Population Research and Census, Portland State University.

TABLE 10-2. POPULATION PROJECTION BY AGE AND SEX, OREGON, 1990, 1995, AND 2000

YEAR AND SEX	TOTAL	AGE GROUPS															
		0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+
1990	2,884,000	210,811	211,928	206,098	204,524	215,940	227,596	244,601	258,196	222,671	164,716	126,895	111,415	111,477	110,963	96,037	160,132 2/
M	1,422,190	108,430	108,902	105,836	104,374	108,967	113,356	123,422	132,219	113,112	82,825	63,399	54,084	52,442	50,207	42,233	58,382 2/
F	1,461,810	102,381	103,026	100,262	100,150	106,973	114,240	121,179	125,977	109,559	81,891	63,496	57,331	59,035	60,756	53,804	101,750 2/
1995	3,094,600	217,904	215,813	223,094	223,470	215,424	220,902	250,190	259,393	263,069	224,573	164,967	126,277	108,957	105,269	99,461	175,837 2/
M	1,530,388	112,082	110,906	114,569	114,418	108,929	109,916	127,881	132,613	134,703	113,850	82,545	62,356	51,858	47,964	42,922	62,876 2/
F	1,564,212	105,822	104,907	108,525	109,052	106,495	110,986	122,309	126,780	128,366	110,723	82,422	63,921	57,099	57,305	56,539	112,961 2/
2000	3,304,300	227,188	222,992	227,100	240,080	234,004	220,528	243,843	265,433	264,132	263,772	222,937	162,764	123,000	103,195	94,641	188,691 2/
M	1,638,396	116,855	114,596	116,638	122,926	118,718	109,948	124,629	137,218	135,031	134,676	112,441	80,502	59,550	47,585	41,162	65,921 2/
F	1,665,904	110,333	108,396	110,462	117,154	115,286	110,580	119,214	128,215	129,101	129,096	110,496	82,262	63,450	55,610	53,479	122,770 2/

2/ Includes ages 75 and over.
Estimates provided by Center for Population Research and Census, Portland State University, 1984 base.

TABLE 10-3. POPULATION PROJECTION BY AGE AND SEX, OREGON, 1990, 1995, 2000, 2005, AND 2010

YEAR AND SEX	TOTAL	AGE GROUPS																	
		0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
1990	2,766,000	196,000	197,000	193,000	180,000	185,000	222,000	255,000	259,000	220,000	159,000	120,000	104,000	104,000	106,000	100,000	77,000	48,000	40,000
M	1,365,000	100,000	102,000	99,000	92,000	92,000	112,000	130,000	132,000	111,000	79,000	59,000	51,000	50,000	50,000	46,000	32,000	18,000	12,000
F	1,401,000	96,000	96,000	94,000	88,000	93,000	110,000	126,000	127,000	109,000	79,000	61,000	54,000	54,000	56,000	55,000	44,000	30,000	29,000
1995	2,828,000	182,000	198,000	201,000	190,000	169,000	192,000	229,000	252,000	253,000	214,000	155,000	118,000	100,000	97,000	92,000	81,000	55,000	49,000
M	1,396,000	93,000	101,000	104,000	97,000	84,000	97,000	116,000	128,000	128,000	107,000	77,000	57,000	48,000	46,000	42.000	35,000	21,000	14,000
F	1,432,000	89,000	97,000	97,000	93,000	86,000	95,000	113,000	124,000	125,000	106,000	79,000	61,000	52,000	51,000	50,000	47,000	34,000	34,000
2000	2,877,000	170,000	185,000	201,000	200,000	178,000	177,000	200,000	228,000	248,000	245,000	208,000	152,000	113,000	94,000	85,000	76,000	59,000	58,000
M	1,420,000	87,000	95,000	103,000	102,000	88,000	90,000	102,000	116,000	125,000	123,000	103,000	75,000	55,000	45,000	39,000	32,000	22,000	17,000
F	1,456,000	83,000	90,000	98,000	97,000	90,000	87,000	98,000	112,000	122,000	122,000	105,000	77,000	58,000	49,000	46,000	43,000	37,000	41,000
2005	2,930,000	168,000	174,000	190,000	200,000	189,000	184,000	185,000	200,000	226,000	243,000	239,000	204,000	146,000	106,000	83,000	71,000	56,000	66,000
M	1,447,000	86,000	89,000	97,000	102,000	94,000	93,000	95,000	102,000	115,000	122,000	119,000	100,000	71,000	51,000	38,000	31,000	21,000	20,000
F	1,483,000	82,000	85,000	92,000	98,000	95,000	91,000	91,000	98,000	111,000	120,000	120,000	103,000	74,000	55,000	44,000	40,000	35,000	47,000
2010	2,991,000	172,000	173,000	179,000	189,000	190,000	197,000	192,000	186,000	199,000	223,000	239,000	234,000	195,000	137,000	94,000	69,000	53,000	70,000
M	1,478,000	88,000	88,000	92,000	96,000	94,000	100,000	98,000	95,000	102,000	113,000	119,000	116,000	96,000	67,000	44,000	30,000	20,000	21,000
F	1,513,000	84,000	84,000	87,000	93,000	96,000	97,000	94,000	91,000	98,000	110,000	120,000	118,000	99,000	71,000	50,000	39,000	32,000	49,000

Current Population Reports, Population Estimates and Projections, Series P-25, No. 1017. U.S. Department of Commerce, Bureau of the Census, 1986 base.

TABLE 10-4.
TOTAL POPULATION
FORECAST FOR OREGON

1990	2,815,070
1995	2,929,940
2000	3,083,220
2005	3,248,550
2010	3,357,090

1988 Consensus Forecast,
Bonneville Power Administration,
NW Power Planning Council

TABLE 10-5. PRELIMINARY ESTIMATES OF FIVE-YEAR AGE GROUPS BY SEX, OREGON AND ITS COUNTIES, JULY 1, 1989

	Total 0-4	Total 5-9	Total 10-14	Total 15-17	Total 18-19	Total 20-24	Total 25-29	Total 30-34	Total 35-39	Total 40-44	Total 45-49	Total 50-54	Total 55-59	Total 60-64	Total 65-69	Total 70-74	Total 75+	Total All Ages
STATE	194864	206097	192051	110590	88958	212810	221058	224961	240001	207799	159320	123433	111872	114482	118882	97182	166640	2791000
BAKER	853	1097	999	592	514	1120	1075	959	1093	987	908	767	744	744	770	746	1382	15350
BENTON	4417	4544	4259	2420	5147	11892	7166	5028	4489	4359	3542	2726	2334	2172	2175	1618	2712	71000
CLACKAMAS	19396	20185	20672	12939	8881	21182	19607	16697	20801	21531	17937	13216	11206	10987	10335	7606	12322	265500
CLATSOP	2323	2593	2451	1347	1037	2429	3217	2960	2971	2353	1857	1428	1296	1478	1522	1420	2518	35200
COLUMBIA	2551	2985	3139	1865	1339	3003	2650	2358	2880	2792	2279	1724	1530	1531	1428	1254	1992	37300
COOS	3560	4314	4290	2511	1855	3911	4265	4276	4677	4170	3610	3061	2891	2922	3073	2694	4220	60300
CROOK	954	1069	1012	624	418	956	919	907	966	915	774	658	600	580	707	602	939	13600
CURRY	944	1108	1027	579	541	1601	1407	1305	1399	1160	1000	855	826	986	1360	1236	1866	19200
DESCHUTES	5176	5499	5088	3090	2201	5063	5029	5265	6267	5376	4096	3035	2604	2498	3524	2742	4047	70600
DOUGLAS	6209	6977	7173	4319	3023	6955	7138	6814	7041	6651	5387	4481	4410	4291	4622	3729	5780	95000
GILLIAM	79	141	127	59	53	124	137	138	133	126	86	103	112	103	109	76	144	1850
GRANT	534	618	600	367	248	615	591	569	671	548	494	458	386	371	367	336	527	8300
HARNEY	490	566	630	383	225	461	469	518	571	522	470	410	364	361	306	254	400	7400
HOOD RIVER	1265	1339	1185	642	531	1273	1332	1359	1380	1230	922	773	768	728	672	610	991	17000
JACKSON	10153	10376	10021	6055	4431	10515	11394	10779	11541	10380	8243	6551	5766	5897	7100	5846	9952	145000
JEFFERSON	1362	1254	1026	590	343	802	778	743	784	731	620	560	482	480	513	420	612	12100
JOSEPHINE	3718	4002	4088	2416	2073	5098	4732	3917	4678	4442	3669	2905	2681	2800	4020	3313	5648	64200
KLAMATH	3846	4254	4194	2572	1970	4194	4669	4359	4694	4166	3297	2800	2666	2678	2648	2118	3375	58500
LAKE	499	550	556	331	240	524	498	514	589	469	437	380	375	386	335	291	426	7400
LANE	18147	19763	19204	10977	10067	27196	25050	20707	22826	20844	16236	11890	10552	10719	11730	9225	14867	280000
LINCOLN	2476	2756	2395	1313	1057	2782	2995	3031	3366	2692	1943	1667	1659	1884	2176	2062	3246	39500
LINN	6005	6557	6573	3989	2907	6490	6762	6806	7377	6247	5255	4121	3738	3715	4339	3436	5683	90000
MALHEUR	1972	2284	2094	1199	790	1773	1945	1699	1759	1545	1294	1128	1143	1237	1226	1080	1832	26000
MARION	16981	17729	15990	8788	6477	15785	18114	18686	18596	15558	11987	9423	8550	8466	9784	7850	15236	224000
MORROW	606	641	633	343	251	546	524	578	590	493	445	399	340	337	238	214	322	7500
MULTNOMAH	38749	39802	33197	17809	15459	36389	46714	59956	61632	46318	30963	23863	22801	25488	23585	20274	38001	581000
POLK	3263	3410	3328	1893	1538	3703	4176	4021	3853	3446	2624	2164	1994	1866	1872	1626	3023	47800
SHERMAN	102	146	153	82	55	161	127	133	164	127	99	90	97	131	94	106	133	2000
TILLAMOOK	1161	1514	1432	762	603	1518	1534	1493	1802	1425	1111	927	959	1090	1250	1164	1855	21600
UMATILLA	4103	4970	4494	2398	1781	3879	4269	4600	4671	3974	3134	2656	2474	2660	2515	2029	3493	58100
UNION	1612	1962	1912	1117	700	1478	1771	1768	1791	1579	1347	1029	913	932	946	857	1586	23300
WALLOWA	405	577	481	273	220	526	492	483	595	441	398	357	376	357	344	318	557	7200
WASCO	1388	1641	1658	930	656	1380	1343	1375	1645	1431	1201	949	908	976	1067	914	1638	21100
WASHINGTON	24494	23519	20993	12245	9446	23062	22977	25530	27198	24735	18291	13375	10900	10288	9662	6900	11385	295000
WHEELER	48	73	81	59	42	115	109	73	83	93	93	66	84	77	76	92	136	1400
YAMHILL	5023	5282	4896	2712	1839	4309	5083	4557	4428	3943	3271	2438	2343	2266	2392	2124	3794	60700

Source: Center for Population Research and Census
School of Urban and Public Affairs
Portland State University
Portland, Oregon 97207

TABLE 10-5. PRELIMINARY ESTIMATES OF FIVE-YEAR AGE GROUPS BY SEX, OREGON AND ITS COUNTIES, JULY 1, 1989 (CONTINUED)

	Male 0-4	Male 5-9	Male 10-14	Male 15-17	Male 18-19	Male 20-24	Male 25-29	Male 30-34	Male 35-39	Male 40-44	Male 45-49	Male 50-54	Male 55-59	Male 60-64	Male 65-69	Male 70-74	Male 75+	Male All Ages
STATE	99771	105433	98800	56417	45731	108752	110752	110804	119729	104551	79911	61375	54128	53711	53943	42776	61829	1368413
BAKER	435	555	552	290	277	624	551	484	543	485	436	380	381	351	360	328	549	7581
BENTON	2262	2342	2198	1188	2622	6128	3715	2962	2397	2199	1770	1353	1136	1030	985	742	944	35973
CLACKAMAS	9932	10385	10546	6587	4552	10778	10183	8149	10024	10407	8978	6634	5568	5235	4779	3405	4492	130634
CLATSOP	1189	1334	1261	710	506	1222	1588	1509	1551	1242	930	714	620	705	666	616	950	17313
COLUMBIA	1306	1505	1538	963	678	1535	1365	1111	1451	1369	1180	897	752	725	679	580	802	18436
COOS	1821	2217	2185	1310	991	2074	2179	2035	2299	2085	1787	1508	1425	1393	1424	1270	1670	29673
CROOK	488	549	508	307	211	494	448	466	453	441	402	347	286	292	296	276	390	6654
CURRY	483	571	513	294	284	775	722	676	704	581	494	392	411	472	600	578	807	9357
DESCHUTES	2651	2779	2631	1578	1135	2584	2542	2526	3148	2741	2045	1553	1286	1157	1578	1269	1689	34892
DOUGLAS	3179	3565	3711	2195	1547	3627	3682	3316	3412	3351	2616	2203	2142	2087	2199	1734	2358	46924
GILLIAM	41	73	64	32	30	55	70	74	68	66	33	56	48	48	53	35	65	911
GRANT	273	317	310	175	127	323	294	276	348	282	264	216	197	184	168	160	224	4138
HARNEY	251	297	338	190	128	235	255	233	293	261	255	220	181	180	145	127	169	3758
HOOD RIVER	648	687	584	340	278	653	709	719	742	646	470	403	350	369	309	274	405	8586
JACKSON	5198	5285	5097	3057	2286	5424	5769	5296	5752	5192	4101	3286	2820	2791	3315	2682	3942	71293
JEFFERSON	698	644	535	310	177	427	412	378	393	342	315	271	246	222	255	196	266	6087
JOSEPHINE	1903	2067	2128	1252	1122	2540	2356	1840	2229	2203	1796	1427	1273	1288	1783	1486	2239	30932
KLAMATH	1969	2160	2239	1340	1030	2143	2473	2226	2315	2106	1664	1401	1301	1307	1236	987	1387	29284
LAKE	256	280	287	159	111	283	252	264	295	235	231	189	168	197	172	147	183	3709
LANE	9291	10083	9948	5644	5246	13970	12357	10062	11257	10643	8126	5920	5093	5031	5270	4059	5617	137617
LINCOLN	1267	1402	1226	664	523	1379	1563	1467	1691	1386	987	840	755	862	946	912	1328	19198
LINN	3074	3358	3360	2035	1539	3314	3386	3323	3641	3161	2584	2028	1843	1715	2014	1500	2220	44095
MALHEUR	1010	1166	1096	597	410	921	1008	852	834	760	616	560	528	581	562	516	742	12759
MARION	8694	9069	8175	4493	3337	8076	9359	9510	9434	7912	6011	4714	4029	3903	4400	3312	5448	109876
MORROW	311	328	338	178	130	281	290	280	311	250	220	210	166	169	114	104	141	3821
MULTNOMAH	19840	20371	17161	9022	7838	18372	22648	29191	31269	23791	15724	11635	10894	11782	10438	8438	12563	280977
POLK	1671	1742	1759	978	798	1940	1891	1933	1885	1683	1321	1038	971	869	851	715	1093	23138
SHERMAN	53	75	75	48	25	78	63	75	88	59	54	43	45	64	48	53	53	999
TILLAMOOK	594	763	742	394	309	773	782	746	948	716	554	470	444	519	567	514	770	10605
UMATILLA	2101	2551	2300	1157	895	1965	2175	2238	2362	2021	1583	1321	1236	1241	1139	936	1352	28573
UNION	825	1003	1008	579	362	796	868	862	867	801	669	513	457	449	429	379	628	11495
WALLOWA	208	300	250	137	93	289	262	238	300	228	199	177	188	159	165	143	229	3565
WASCO	710	844	890	488	349	700	664	657	823	696	618	481	423	428	512	404	631	10318
WASHINGTON	12542	12049	10702	6290	4821	11735	11285	12540	13356	12258	9182	6712	5295	4827	4376	2928	3996	144894
WHEELER	25	39	36	32	23	58	61	40	37	43	46	29	42	39	32	50	61	693
YAMHILL	2572	2678	2509	1404	941	2181	2525	2250	2209	1909	1650	1234	1128	1040	1078	921	1426	29655

TABLE 10-5. PRELIMINARY ESTIMATES OF FIVE-YEAR AGE GROUPS BY SEX, OREGON AND ITS COUNTIES, JULY 1, 1989 (CONTINUED)

	Female 0-4	Female 5-9	Female 10-14	Female 15-17	Female 18-19	Female 20-24	Female 25-29	Female 30-34	Female 35-39	Female 40-44	Female 45-49	Female 50-54	Female 55-59	Female 60-64	Female 65-69	Female 70-74	Female 75+	Female All Ages
STATE	95093	100664	93251	54173	43227	104058	110306	114157	120272	103248	79409	62058	57744	60771	64939	54406	104811	1422587
BAKER	418	542	447	302	237	496	524	475	550	502	472	387	363	393	410	418	833	7769
BENTON	2155	2202	2061	1232	2525	5764	3451	2066	2092	2160	1772	1373	1198	1142	1190	876	1768	35027
CLACKAMAS	9464	9800	10126	6352	4329	10404	9424	8548	10777	11124	8959	6582	5638	5752	5556	4201	7830	134866
CLATSOP	1134	1259	1190	637	531	1207	1629	1451	1420	1111	927	714	676	773	856	804	1568	17887
COLUMBIA	1245	1480	1601	902	661	1468	1285	1247	1429	1423	1099	827	778	806	749	674	1190	18864
COOS	1739	2097	2105	1201	864	1837	2086	2241	2378	2085	1823	1553	1466	1529	1649	1424	2550	30627
CROOK	466	520	504	317	207	462	471	441	513	474	372	311	314	288	411	326	549	6946
CURRY	461	537	514	285	257	826	685	629	695	579	506	463	415	514	760	658	1059	9843
DESCHUTES	2525	2720	2457	1512	1066	2479	2487	2739	3119	2635	2051	1482	1318	1341	1946	1473	2358	35708
DOUGLAS	3030	3412	3462	2124	1476	3328	3456	3498	3629	3300	2771	2278	2268	2204	2423	1995	3422	48076
GILLIAM	38	68	63	27	23	69	67	64	65	60	53	47	64	55	56	41	79	939
GRANT	261	301	290	192	121	292	297	293	323	266	230	242	189	187	199	176	303	4162
HARNEY	239	269	292	193	97	226	214	285	278	261	215	190	183	181	161	127	231	3642
HOOD RIVER	617	652	601	302	253	620	623	640	638	584	452	370	418	359	363	336	586	8414
JACKSON	4955	5091	4924	2998	2145	5091	5625	5483	5789	5188	4142	3265	2946	3106	3785	3164	6010	73707
JEFFERSON	664	610	491	280	166	375	366	365	391	389	305	289	236	258	258	224	346	6013
JOSEPHINE	1815	1935	1960	1164	951	2558	2376	2077	2449	2239	1873	1478	1408	1512	2237	1827	3409	33268
KLAMATH	1877	2094	1955	1232	940	2051	2196	2133	2379	2060	1633	1399	1365	1371	1412	1131	1988	29216
LAKE	243	270	269	172	129	241	246	250	294	234	206	191	207	189	163	144	243	3691
LANE	8856	9680	9256	5333	4821	13226	12693	10645	11569	10201	8110	5970	5459	5688	6460	5166	9250	142383
LINCOLN	1209	1354	1169	649	534	1403	1432	1564	1675	1306	956	827	904	1022	1230	1150	1918	20302
LINN	2931	3199	3213	1954	1368	3176	3376	3483	3736	3086	2671	2093	1895	2000	2325	1936	3463	45905
MALHEUR	962	1118	998	602	380	852	937	847	925	785	678	568	615	656	664	564	1090	13241
MARION	8287	8660	7815	4295	3140	7709	8755	9176	9162	7646	5976	4709	4521	4563	5384	4538	9788	114124
MORROW	295	313	295	165	121	265	234	298	279	243	225	189	174	168	124	110	181	3679
MULTNOMAH	18909	19431	16036	8787	7621	18017	24066	30765	30363	22527	15239	12228	11907	13706	13147	11836	25438	300023
POLK	1592	1668	1569	915	740	1763	2285	2088	1968	1763	1303	1126	1023	997	1021	911	1930	24662
SHERMAN	49	71	78	34	30	83	64	58	76	68	45	47	52	67	46	53	80	1001
TILLAMOOK	567	751	690	368	294	745	752	747	854	709	557	457	515	571	683	650	1085	10995
UMATILLA	2002	2419	2194	1241	886	1914	2094	2362	2309	1953	1551	1335	1238	1419	1376	1093	2141	29527
UNION	787	959	904	538	338	682	903	906	924	778	678	516	456	483	517	478	958	11805
WALLOWA	197	277	231	136	127	237	230	245	295	213	199	180	188	198	179	175	328	3635
WASCO	678	797	768	442	307	680	679	718	822	735	583	468	485	548	555	510	1007	10782
WASHINGTON	11952	11470	10291	5955	4625	11327	11692	12990	13842	12477	9109	6663	5605	5461	5286	3972	7389	150106
WHEELER	23	34	45	27	19	57	48	33	46	50	47	37	42	38	44	42	75	707
YAMHILL	2451	2604	2387	1308	898	2128	2558	2307	2219	2034	1621	1204	1215	1226	1314	1203	2368	31045

TECHNICAL NOTES

Technical Notes: Definitions

BIRTHS.

Apgar Score is a numerical expression of the condition of a newborn shortly after birth. It is the sum of points accumulated upon assessment of the heart rate, respiratory effort, muscle tone, reflex irritability, and color. The highest possible score is ten. A low Apgar score (seven or less) measured five minutes after birth indicates the infant is at increased risk of morbidity and mortality.

Births to Unwed Mothers Ratio is the number of births to unwed mothers per 1,000 live births.

Crude Birth Rate is the number of live births per 1,000 total population.

Live Birth is the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, which, after such a separation, breathes or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached; each product of such a birth is considered live born.[1]

Low Birthweight Infant is a live born infant with a birthweight less than 5 pounds, 8 ounces (2,500 grams) as reported on the birth certificate.

DEATHS.

Crude Death Rate is the number of deaths per 1,000 or 100,000 total population.

Fetal Death is death prior to the complete expulsion or extraction from its mother of a product of conception of at least 20 weeks gestation, except where such expulsion results from a therapeutic abortion; the death is indicated by the fact that after such separation, the fetus does not breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles.

Fetal Death Ratio is the number of fetal deaths per 1,000 live births. Ratios differ from rates. There are may be many more total deaths than births. If there were 10,000 fetal deaths and only 500 births, the fetal death ratio would be 20,000.

Infant Death is the death of a child prior to the first birthday.

Infant Death Rate is the number of infant deaths per 1,000 live births.

Maternal Death Rate is the number of female deaths attributed to childbirth or to complications of pregnancy or the puerperium, per 100,000 live births.

Neonatal Death is the death of a child within the first 27 days of life.

Neonatal Death Rate is the number of neonatal deaths per 1,000 live births.

1. *Vital Statistics of the United States*, 1982, vol. 1, section 4, page 1. U.S. Department of Health and Human Services, Public Health Service, National Center for Health Statistics, Maryland, 1986.

Postneonatal Death is the death of a child after 27 days of life and before the first birthday.

Postneonatal Death Rate is the number of postneonatal deaths per 1,000 live births.

Perinatal Death is the death of a fetus after 20 weeks gestation or the death of a live-born infant prior to the 28th day of life. Other medical literature may include different time periods.

Perinatal Death Ratio is the number of perinatal deaths per 1,000 total live births.

INDUCED TERMINATIONS OF PREGNANCY.

Dilation and Evacuation. Similar to suction curettage but the placenta and fetal parts are removed with a sponge forceps, or some other specially designed instrument, following dilation of the cervix.

Hysterectomy.The uterus is removed either with the fetus inside or after the fetus is removed. It is usually performed only when a pathological condition of the uterus, such as fibroid tumors, warrants its removal or when a woman desires sterilization.

Hysterotomy. A surgical entry into the uterus, as in a caesarean section, which removes a fetus that is too small to survive even with extraordinary life support measures. It is usually performed only if other abortion procedures fail. Hysterotomies are included under "Other" in tabular presentations.

Intra-Uterine Saline Instillation. The withdrawal of a portion of the amniotic fluid from the uterine cavity by a needle inserted through the abdominal wall and the replacement of this fluid with a concentrated salt solution. This process induces labor, which results in the expulsion of the usually dead fetus approximately 24 to 48 hours later. (Note: Saline abortion is also known as intra-amniotic saline instillation or saline amniotic fluid exchange.)

"Other" Procedures. This category includes procedures using a combination of agents, such as urea and prostaglandin, prostaglandin and oxytocin, or prostaglandin and saline.

Prostaglandin Instillation. The injection of a prostaglandin, a substance with hormone-like activity, into the uterine cavity through a needle inserted through the abdominal wall. The interval between injection and expulsion of the fetus, tends to be shorter than in a saline solution. (Note: Prostaglandin is also known as intra-amniotic prostaglandin instillation.)

Sharp Curettage. The dilation of the cervix as in suction, although usually to a larger diameter. The fetal and placental tissues are then scraped with a curette, which resembles a small spoon. (Note: This procedure is also known as surgical D & C.)

Suction Curettage. The cervical canal is dilated by the successive insertion of instruments of increasing diameter called dilators. When the opening is large enough, a flexible tube (cannula) is inserted into the uterine cavity and the fetal and placental tissues are then suctioned out by an electric vacuum pump. (Note: Suction D & C is also known as vacuum aspiration.) Sometimes the category dilation and evacuation is included here.

Vaginal Suppository Prostaglandin. The use of prostaglandin medication in a suppository form to induce uterine contractions.

MEDICAL PERSONNEL.

C.N.M. denotes certified nurse midwife.

D.C. denotes doctor of chiropractic medicine. Chiropractic is a system of therapeutics based upon the claim that disease is caused by abnormal function of the nerve system. It attempts to restore normal function of the nerve system by manipulation and treatment of the structures of the human body, especially those of the spinal column.

D.O. denotes doctor of osteopathic medicine. Osteopathy is a system of therapy founded by Andrew Taylor Still (1828-1917) and based on the theory that the body is capable of making its own remedies against disease and other toxic conditions when it is in normal structural relationship and has favorable environmental conditions and adequate nutrition. It utilizes generally accepted physical, medicinal, and surgical methods of diagnosis and therapy, while placing chief emphasis on the importance of normal body mechanics and manipulative methods of detecting and correcting faulty structure.[2]

M.D. denotes medical doctor.

N.D. denotes naturopathic doctor. Naturopathy is a system of therapy without using drugs and utilizing physical forces such as air, light, water, heat, massage, etc.[2]

R.N. denotes registered nurse.

2. Definition from *Dorland's Illustrated Medical Dictionary*. W.B. Saunders Co. Philadelphia. 1974.

Technical Notes: Methodology

MORTALITY. The death rates in this report are not age-adjusted. (However, age- and sex-specific death rates are presented in addition to crude death rates.) Age-adjusted death rates permit the comparison of populations with disparate age structures *as if* the populations had similar distributions. Age-adjusting Oregon's mortality rates (to the U.S. standard) typically results in a death rate slightly lower than the crude death rate. This is because Oregon's population is slightly older than the national average. The differences between Oregon crude and age-adjusted death rates are rarely more than 2 percent, however, and do not substantially impact rate differences between the state and nation for most leading causes of death.

The following table is derived from data in *Oregon Leading Causes of Mortality, 1978-1986*. This report is also recommended for readers who wish to compare county rates to state rates.

Oregon Death Rates, Crude Compared to Age-Adjusted, 1978-1986

Cause	Crude	Age-Adjusted	Percent Difference
All Causes	835.2	828.0	-0.9%
Heart Disease	290.1	283.7	-2.2%
Malignant Neoplasms	185.7	184.2	-0.8%
Digestive	45.4	44.9	-1.1%
Colon	17.9	17.7	-1.1%
Bronchus and Lung	51.3	51.0	-0.6%
Breast	30.5	28.3	-7.2%
Genitourinary	21.4	21.2	-0.9%
Lymphatic, etc.	18.3	18.1	-1.1%
Cerebrovascular Disease	74.9	73.9	-1.3%
Unintentional Injuries	46.7	46.7	0.0%
Motor Vehicle	24.5		
Chronic Obstructive Pulmonary Disease	34.1	33.5	-1.8%
Pneumonia and Influenza	25.6	25.3	-1.2%
Suicide	15.2	15.2	0.0%
Alcoholism	12.8	12.8	0.0%
Diabetes Mellitus	11.7	11.6	-0.9%
Congenital Anomalies	5.8	6.0	+3.4%
Homicide	4.9	4.9	0.0%

Adjusted to 1982 U.S. population distribution. All rates are per 100,000 population.

The number of Oregonians whose deaths were linked to tobacco use are presented in Tables 4-12 and 4-13. However, the number is artificially low. This is because the role of tobacco, if any, is not routinely noted on the death certificates of Oregonians who died out of state. (The footnotes on Tables 4-12 and 4-13 describe the question on the Oregon death certificate regarding tobacco use.) The potential for undercount is greatest for Oregon residents who live in counties bordering other states.

MARRIAGE AND DIVORCE. The basis for estimating the number of children affected by divorce has changed in the last year. Prior to 1989, petitioners were asked to list the names of all minor children (under 18 years) *of the marriage being dissolved* on the record of dissolution of marriage. This procedure excluded children born to a previous union from being listed and resulted in an underestimation of the number of minors affected by marital dissolutions. In 1989, petitioners were no longer asked to list children by name, but were asked to give the "number of children

under 18 *in this household*" as of the date the couple last lived together. Although the new phrasing provides a more accurate estimate of the number of minors affected by divorce, totals based on the new form should *not* be compared directly with those obtained prior to 1989.

ADOLESCENT SUICIDE. Data in the adolescent suicide attempt section were compiled from teen suicide attempt reports and death certificates filed with the Oregon Health Division's Center for Health Statistics. Attempt rates are age-specific and are expressed per 100,000 of the population at risk per year. The Center for Population Research and Census was the source of the population data. References to teenagers include persons 10- to 19-years-old. References to adolescents and minors include only Oregonians 17 or younger. Methods of attempt are classified according to the International Classification of Diseases (ICD). The name of the attempter is not recorded on attempts reported to the Health Division.

Row and column percents are presented in most tables. For example, the row percents in Table 7-2 show that 70.8 percent of all adolescent males who attempted suicide were 15- to 17-years-old. The column percent reveals that only 20.4 percent of the attempts among 15- to 17-year-olds were by males; that is, over three-fourths of the attempts were by females.

Several problems are apparent with the data. The first is that the total number of attempts reported is low. Because Oregon is the only state to require that adolescent suicide attempts be reported, when Oregon adolescents attempt suicide in another state, the event is not reported. More significantly, although required by law, the data suggests that not all hospitals are fully cooperating with the program. Thirdly, it is uncertain whether reporting hospitals are using the same criteria in determining whether the patient attempted suicide. Finally, some data items are poorly reported; the "not stated" category is as high as one in four or one in three for some variables.

INDUCED TERMINATIONS OF PREGNANCY. Except for incomplete reporting by providers, the data represent *all* abortions performed in Oregon during 1989. That is, the data constitute events associated with the place of occurrence rather than the "residence data" used in estimating births. This is necessary because most abortions obtained out-of-state by Oregon residents are not reported to Oregon's Center for Health Statistics. It reflects the great variation in abortion reporting procedures among states (e.g., some states do not record the patient's residence) as well as the fact that a comprehensive data collection network among all states, similar to that used in reporting births, does not exist in regard to abortions.

In using "occurrence" data rather than "residence" data to estimate abortion rates for Oregon residents, an implicit assumption is made that the number of Oregon residents who leave the state to obtain an abortion equals the number of out-of-state residents who obtain an abortion in Oregon. In formulating generalizations which involve trends or long-term behavioral patterns, annual totals are treated as sample values generated by ongoing social, economic, or political processes and thus subject to "chance" variability. For most purposes, numbers offered in this report should be viewed only as careful approximations and interpreted only within the framework of statistical safeguards developed to take sampling variability into account.

Some rates in this report are based on relatively *few events* and for most comparisons may be used only with extreme caution—due to the chance fluctuations associated with small numbers. A small percentage of abortion reports lack certain data items. This may greatly affect the estimation of rates. To minimize the potential bias inherent in such estimates, unknown events are assigned to the categories of analysis proportional to the distribution of known events. In this way, rates calculated for subsets (e.g., "abortions per thousand black females") are, on average, less affected by incomplete data.

Estimation of the Cumulative Proportion of Females Who Have Experienced an Abortion. This figure is estimated by tracing the abortion experience of a specific cohort of females over an extended time period. In the table below, an approximation of the *cumulative total* of abortions by one of the cohorts may be obtained by summing the figures in the boxed area.

Number Of First Time Abortions By Year And Age Group, Oregon Occurrence, 1975-1989

	AGE GROUPS					
YEAR	15-19	20-24	25-29	30-34	35-39	40-44
1975	3,470	2,751	1,331	620	296	107
1976	3,877	3,125	1,551	616	297	108
1977	3,605	2,921	1,467	650	300	107
1978	3,620	3,041	1,573	786	327	98
1979	3,821	3,149	1,552	811	289	108
1980	3,792	2,965	1,540	795	345	90
1981	3,261	2,643	1,361	760	343	96
1982	2,530	2,066	1,093	607	263	83
1983	2,340	1,976	971	519	287	67
1984	2,340	2,091	995	580	299	80
1985	2,442	2,041	915	496	324	64
1986	2,065	1,694	880	506	270	70
1987	2,375	1,926	935	584	322	83
1988	2,844	2,281	1,086	661	379	94
1989	2,801	2,453	1,245	637	415	110

To obtain this value, it is necessary to sum the number of first-time abortions for 15- to 19-year-olds from 1975 to 1979 and those of 20- to 24-year-olds from 1980 to 1984 with those of 25- to 29-year-olds from 1985 to 1989. This provides an estimate of the numerator in the following equation:

$$\text{Cumulative propoprtion of females who have had an abortion} = \frac{\text{Total number of first-time abortions among a specific cohort of females}}{\text{Number of females in cohort}}$$

The denominator may be estimated by averaging the size of the cohort during 1975-1989. Table 10-1 lists the annual estimate of the number of females within each cohort. For example, in 1975 the number of 15- to 19-year-old females was estimated to be 110,334; in the next year it was 111,184. The average size of this age group from 1975 to 1979 was 112,047. Similarly, the number of 20- to 24-year-old women between 1980 and 1984 was 114,553 on average; the number of 25- to 29-year-olds averaged 111,724 between 1985 and 1989. Thus, between 1975 and 1989 the cohort of interest had an average population size of 112,775.

Substituting into the formula given on the preceding page:

$$Cp = \frac{\text{Sum of First Abortions}}{N} = \frac{35{,}195}{112{,}775} = .312 \text{ or } 31.2 \text{ percent}$$

This figure approximates the proportion of females in the 25- to 29-year-old cohort who, by 1989, had *ever had an abortion*. This method of estimation assumes that factors such as deaths and migration have not altered the composition of the female population in Oregon—that is, the women who have left the state display the same characteristics as those who have moved into Oregon. It also assumes that patients with a history of previous abortions do not report the current procedure as a first abortion.

TEEN PREGNANCY. Pregnancy estimates are based upon the estimated number of teen births and induced terminations among Oregon teens; they do not include the number of fetal deaths or miscarriages (spontaneous abortions) which occur. The estimation of teen births is considered to be relatively complete and includes births to resident teens even when they occur out-of-state. The estimation of teen abortions in Table 9-7 is based on all reported abortions to teen age residents of Oregon; however, because states often do not report abortions obtained within their borders to the state of residence as occurs with vital events such as birth and death, an unknown number of Oregon teens obtain abortion services out-of-state. In Tables 9-1 and 9-2, estimated abortions are based on abortions which occurred in Oregon to Oregon residents. As a consequence, estimates of teen abortions and teen pregnancies should be considered minimal in nature.

Furthermore, because estimates of abortion for teens are based on "residence data," figures given in Tables 9-5 and 9-7 do not correspond exactly to those in Tables 8-5 and 8-6, which are based on "occurrence data." (See Induced Terminations of Pregnancy methodology section above.)

The estimation of rates requires an estimate of the size of the appropriate population. Such estimates are now available for 15- to 17-year-olds and 18- to 19-year-olds for each county on an annual basis. Because estimated rates based on a small population may vary greatly due to chance factors, rates of teen pregnancy, birth, and abortion were calculated for these age groups only if there were 100 or more female residents of the appropriate age group in the county.

Similarly, rates for 15- to 19-year-olds were calculated whenever a county had 200 or more female residents in this age group.

Great caution must be taken in the use of pregnancy statistics associated with females under 15 years of age. This is due to the fact that relatively few events are recorded each year for this group. Also, rates are based on the estimated population cohort of 10- to 14-year-old females—many of whom are physiologically not yet at risk of pregnancy. Thus, any *direct* comparison of rates between this group and another age group—e.g., 15- to 17-year-olds—would be inappropriate.

Technical Notes: Step-By-Step Instructions

Data users are diverse, including public-health officials evaluating a program by using death data, demographers projecting school enrollments with birth data, and business people deciding to open a formal-wear shop based on marriage data. Many of these users have a thorough knowledge of statistics. But others find the entire subject-matter confusing and intimidating. For either group, a misunderstanding of what vital statistics mean can lead to wrong conclusions. Therefore, this section is included to provide an overview of how to use vital statistics. It is addressed to the person looking at vital events for the first time, but the experienced user may also find a review helpful.

STEP 1: FINDING THE CORRECT NUMBER

The first step is to determine how many of a particular vital event took place during the year. This involves asking two questions:

Which event or events are appropriate?

DEATHS
INFANT DEATHS
NEONATAL DEATHS
POST-NEONATAL DEATHS
FETAL DEATHS
LOW BIRTH WEIGHT INFANTS
PREGNANCIES
INDUCED ABORTIONS
MARRIAGES
ANNULMENTS
DIVORCES

This may not be as simple as it sounds. For one thing, examining more than one type of event may be required. For example, a researcher who is concerned with teenage pregnancies will have to consider abortions and fetal deaths, not simply the number of births.

Deciding which events to use is important since sometimes the choice of one event over another can lead to vastly different conclusions. Consider the researcher who asks, "Have we substantially reduced the likelihood of death for babies?" If the researcher looks at neonatal deaths (babies who die before they are 28 days old), the answer is yes, while for post-neonatal deaths (those between 28 days and one year), the answer is no.

To determine which events are appropriate, read the definitions section of "How to Use Vital Statistics." The narratives also contain useful examples.

Who should be counted?

If you are a hospital planner who is deciding to expand or contract delivery services, you want to count the number of births which occurred in your area, regardless of where the parents live. If you are projecting school enrollment, you want to count only how many children will potentially be residing in your area. Fortunately, vital events are usually reported so that both of these data needs can be met.

OCCURRENCE DATA	The event (the death, birth, marriage, etc.) actually took place in the geographic region indicated (either Oregon or a particular county). The person participating in the event may have lived in Podunk, New York.
RESIDENCE DATA	The person involved in the event lived in the geographic region mentioned, but the event itself may have taken place anywhere in the United States or Canada. In other words, a resident of Marion county who died in an accident while on vacation in Michigan has been added to the Marion county resident death figure.

When in doubt about which type of data to use, resident figures are usually the best choice. Most birth and death data are published by residence, which means that comparisons with other states or the United States as a whole will be easier. Exceptions to this rule are listed in the individual sections.

Once the right event has been determined, and the choice between occurrence and residence data has been made, the statistician can find the correct figures in the table(s) in this book. If the needed table is not listed, contact the Center for Health Statistics for more information.

STEP 2: MAKING THE NUMBER MEANINGFUL WITH RATES AND RATIOS

In many instances simply knowing the number of events is not sufficient. A. Bradford Hill expressed this important statistical concept:

"It is well recognized that white sheep eat more than black sheep -- because there are more of them."

For example, we know more people died in Multnomah County than in Wheeler County, because Multnomah County has a much larger population. But what is the likelihood of dying in each county?

In order to answer this question, statisticians calculate rates. This means that the number of events which occurred is compared to the population for which that event could have occurred, and the figure is then standardized to some number (such as 1,000 or 100,000) for convenience.

Here is an example:

$$\text{CRUDE DEATH RATE} = \frac{\text{DEATHS}}{\text{POPULATION}} \times 1{,}000$$

the number of people who could have died

a number picked by vital statisticians to eliminate decimal points

The more specifically a statistician can define the "population at risk" (the denominator or bottom part of the formula), the more meaningful the rate is. For example, the crude birth rate, which compares the number of births to the population, is not nearly as informative as the fertility rate, which uses only the number of women of childbearing age (15-44) for comparative purposes. The fertility rate is not distorted by changes in the number of men or pre-pubescent or post-menopausal women in the population. (The turn of the century notion that only married women between the age of 15 and 44 would be considered at risk of pregnancy has been abandoned for obvious reasons.)

Unfortunately we do not always have the correct denominator for the equation. In these situations a substitute is used. For example, how many people are at risk of getting divorced? The number of married people is only available for census years. As a substitute, the crude divorce rate is calculated using the total population regardless of marital status. In other situations, the event is simply compared to another related number. For instance, the abortion ratio compares the number of abortions to the number of births. This is easier and more accurate than trying to determine the true denominator, which is the total number of pregnant women.

When calculating rates and ratios, great care must be taken to make certain that the appropriate time periods, geographical boundaries, and populations are used.

STEP 3: COMPARING TWO OR MORE NUMBERS

Numbers are more meaningful when they are converted into rates and ratios. But problems can arise when rates or ratios are compared for different geographical areas, different time periods, or different categories such as men versus women.

Chance variation

Statisticians expect a certain amount of chance variation and have methods to take this into account. The confidence interval uses the number of cases and their distributions to determine what the rate "really is." For example, a statistician will say, "We are 95% sure that the true infant death rate for Oregon in 1986 was 9.47 ± 0.97, that is, it lies somewhere between 8.50 and 10.44." If two rates have overlapping confidence intervals, then the difference between them may be due to this chance variation. In other words the difference is not statistically significant. Thus Multnomah County's infant death rate, 8.81 ± 1.97, is shown not to be statistically different from the state rate:

```
                        --------                    8.81 ± 1.97
MULTNOMAH                   *
          .1.........6...8.8...11..............20

                        -----                       9.47 ± 0.97
STATE                       *
          .1.............8..9.5.................20
```

When comparing rates and ratios, differences should be tested for statistical significance. Formulas are listed in the appendix.

Small numbers

Chance variation is a common problem when the numbers being used to calculate rates are extremely small. Large swings often occur in the rates which do not reflect real changes. Consider Wasco county's infant mortality rates for a five year period.

WASCO COUNTY

YEAR	BIRTHS	INFANT DEATHS	INFANT DEATH RATES
1981	308	0	-
1982	345	3	8.7
1983	341	4	11.7
1984	350	5	14.3
1985	291	2	6.9
1981-1985	1,635	14	8.6

The overall rate of 9.3 is quite close to the state rate for the same time period (10.6). Yet for some years the rate is half again or more as high as the rate of other years simply because two additional infants died. Public health officials would waste a good deal of energy reacting to these annual rates.

Many rates based on small numbers are published in this book because readers demand them. But anyone preparing to make important decisions based on these rates should be wary. Consider this rule of thumb: a rate based on 20 cases has a 95% confidence interval about as wide as itself (the interval for a rate of 50 is between 25 and 75). Even large differences between two rates based on 20 cases or less are probably not statistically significant.

If 20 is too few, how many cases are sufficient to say that a true difference exists? Unfortunately we have no easy rules for this. To be safe, the vital statistician should always try to combine several years of data or consolidate geographical areas. Confidence intervals should be calculated, and differences should be tested for statistical significance.

Changes in measurement

Another problem is that the numbers being compared have not always been based on the same type of measurement. Definitions, population estimates, certificates, and coding procedures change from time to time as the need arises. This can create "artificial" differences and can disguise "real" differences. The cause-of-death item provides an excellent example of changes in comparability:

During the late 1970's approximately 80 to 85 people died each year due to hypertensive disease.	RATE = 3.3 PER 100,000 POPULATION
In 1979, 250 people died from this cause.	RATE = 9.8 PER 100,000 POPULATION

It appears that the incidence of hypertensive disease increased. But actually, a new coding scheme resulted in more deaths being coded as due to hypertensive disease.

Taking age, sex, and race into account

Mr. G. C. Whipple noted in 1923 that, "We might find that the death rate of bank presidents was higher than that of newsboys; but this would not be because of different occupations, but because of different ages." We expect older people to die at a higher rate than younger people. We also expect people in their twenties to have more babies than the very young or the very old. Sex and race, as well as age, affect rates drastically.

When comparing two places or two points in time, it is necessary to take these influencing characteristics into account. Here is an example:

The crude death rate increased between 1950 and 1960 from 9.1 to 9.5 deaths per thousand. But an examination of the death rates for each age group indicates that these all decreased. This contradiction is explained by the fact that in 1960 a larger proportion of the population was concentrated in the older age groups where death rates are higher .

	1950	1960
CRUDE DEATH RATE	9.1	9.5
AGE SPECIFIC DEATH RATES		
0 - 4	5.9	5.7
5 - 14	0.6	0.4
15 - 24	1.5	1.1
25 - 44	2.4	2.1
45 - 64	11.1	10.6
65+	58.4	56.8

Before comparing two places or two time periods, always compare the population characteristics first. If discrepancies are noted in any relevant variables, then the rates should be adjusted or standardized in order to make the comparisons free of differences in the structure of the populations. The formulas for doing this are listed in the appendix.

STEP 4: ANALYZING THE DATA

The first three steps have been fairly mechanical:

(1) Choose the correct events and the correct group to determine the number of events which took place for the geographical areas and time periods.

(2) Calculate the rates.

(3) Compare these rates to determine if the differences are statistically significant.

NOW the vital statistician must begin to ask the difficult questions. If we find that two rates are statistically significantly different, how can we find out why they are different? If the differences which we expected did not prove to be significant, is there another item which perhaps is masking an actual difference? Frequently the statistician has to refine the research question and begin all over again.

HELP

Several sources of help are available. Many of the widely used rates and ratios are presented in the Quick Reference section, and narratives and figures are included throughout the book to illustrate changes. And finally, the staff of the Center for Health Statistics are available for data users who need assistance.

Technical Notes: Formulas

GENERAL

PERCENT CHANGE = $\frac{\text{Old Data - New Data}}{\text{Old Data}} \times 100$

Birth rate, Oregon, 1984 = 14.9
Birth rate, Oregon, 1985 = 14.7

Percent change = $\frac{14.9 - 14.7}{14.9} \times 100 = -1.3\%$

PREGNANCY

1. (CRUDE) BIRTH RATE = $\frac{\text{Resident Births}}{\text{Population}} \times 1{,}000$

Oregon, 1985 = $\frac{39{,}419}{2{,}675{,}800} \times 1{,}000 = 14.7$

2. AGE SPECIFIC BIRTH RATE = $\frac{\text{Resident Births to Mothers in Age Category}}{\text{Female population in Age Category}} \times 1{,}000$

Oregon, 1985, Age 20-24 = $\frac{11{,}815}{106{,}737} \times 1{,}000 = 110.7$

3. FERTILITY RATE = $\frac{\text{Resident Births to Mothers Aged 15-44}}{\text{Female population Aged 15-44}} \times 1{,}000$

Note: Some publications use the following: $\frac{\text{All resident births}}{\text{Female population Aged 15-44}}$

Oregon, 1985 = $\frac{39{,}364}{632{,}737} \times 1{,}000 = 62.21$

4. TOTAL FERTILITY RATE = Age-specific Birth Rates in 5 year Categories between 15 and 44

Oregon, 1985 = 5 (42.8 + 111.2 + 110.8 + 65.6 + 21.2 + 3.4) = 1,775.0

5. FETAL DEATH RATE = $\frac{\text{Resident Fetal Deaths of 20 or More Weeks Gestation}}{\text{Resident Births}} \times 1{,}000$

Note: Publications vary in the gestation cutoff for fetal deaths. The following formula is sometimes used.

$$\frac{\text{Resident Fetal Deaths}}{\text{Resident Births} + \text{Resident Fetal Deaths}} \times 1{,}000$$

Oregon, 1985, Residents = $\frac{237}{39{,}419} \times 1{,}000 = 6.0$

---

6. ABORTION RATIO = $\frac{\text{Resident Abortions}}{\text{Resident Births}} \times 1{,}000$ OR $\frac{\text{Occurrence Abortions}}{\text{Occurrence Births}} \times 1{,}000$

Oregon, 1985, Occurrence = $\frac{12{,}056}{40{,}778} \times 1{,}000 = 295.6$

---

7. ABORTION RATE = $\frac{\text{Resident Abortions or Occurrence Abortions}}{\text{Female Resident Population Aged 15-44}} \times 1{,}000$

Oregon, 1985, Occurrence with total adjusted for not stated ages. = $\frac{11{,}933}{632{,}737} \times 1{,}000 = 18.9$

DEATHS

---

8. (CRUDE) DEATH RATE = $\frac{\text{Resident Deaths}}{\text{Population}} \times 1{,}000$

Oregon, 1985 = $\frac{23{,}824}{2{,}575{,}800} \times 1{,}000 = 8.9$

---

9. INFANT DEATH RATE = $\frac{\text{Resident Infant Deaths}}{\text{Resident Births}} \times 1{,}000$

Oregon, 1985 = $\frac{387}{39{,}419} \times 1{,}000 = 9.8$

---

10. NEONATAL DEATH RATE = $\frac{\text{Resident Neonatal Deaths}}{\text{Resident Births}} \times 1{,}000$

Oregon, 1985 = $\frac{211}{39{,}419} \times 1{,}000 = 5.4$

---

11. POST-NEONATAL DEATH RATE = $\frac{\text{Resident Post-Neonatal Deaths}}{\text{Resident Births}} \times 1{,}000$

Oregon, 1985 = $\frac{176}{39{,}419} \times 1{,}000 = 4.5$

---

12. CAUSE-SPECIFIC DEATH RATE = $\frac{\text{Resident Deaths Due to Specific Cause}}{\text{Population}} \times 100{,}000$

Oregon, 1985, Heart Disease = $\frac{8{,}192}{2{,}675{,}800} \times 100{,}000 = 306.2$

---

13. AGE-SEX SPECIFIC DEATH RATE = $\frac{\text{Resident Deaths in Age-Sex Category}}{\text{Population in Age-Sex Category}} \times 100{,}000$

Oregon, 1985, Males Aged 5-14 = $\frac{54}{194{,}963} \times 100{,}000 = 27.7$

MARRIAGE AND DIVORCE

---

14. MARRIAGE RATE = $\frac{\text{Marriages}}{\text{Population}} \times 1{,}000$

Oregon, 1985 = $\frac{22{,}408}{2{,}675{,}800} \times 1{,}000 = 8.4$

---

15. AGE-SPECIFIC MARRIAGE RATE = $\frac{\text{Marriages of Grooms in Specific Age Group}}{\text{Population of Males in Specific Age Group}} \times 1{,}000$

Oregon, 1985, Grooms Aged 20-24 = $\frac{6{,}493}{106{,}228} \times 1{,}000 = 61.1$

$\frac{\text{Marriages of Brides in Specific Age Group}}{\text{Population of Females in Specific Age Group}} \times 1{,}000$

Oregon, 1985, Brides Aged 20-24 = $\frac{7{,}416}{111{,}398} \times 1{,}000 = 66.6$

---

16. DIVORCE RATE = $\frac{\text{Divorces}}{\text{Population}} \times 1{,}000$

Oregon, 1985 = $\frac{15{,}736}{2{,}675{,}800} \times 1{,}000 = 5.9$

CALCULATING CONFIDENCE INTERVALS FOR RATES

To determine the confidence interval for a rate, two numbers are needed : (1) the numerator (the number of events) and (2) the denominator. If the rate is an infant, neonatal, or post-neonatal mortality rate or a rate for a characteristic of births, the denominator is the number of births. Otherwise the denominator is a population figure. Use this formula:

$$\frac{1{,}000}{\text{denominator}} \left(\text{events} \pm 1.96\sqrt{\text{events}^{*}}\right) = \text{rate} \pm \text{confidence interval}$$

*NOTE: If comparing rates in which there are more than 100 events (for example deaths for ages over 65)

then $1.96\sqrt{\text{events}}$ should be replaced with: $1.96\sqrt{\text{events}\left(1-\left(\frac{\text{events}}{\text{denominator}}\right)\right)}$

Example: What is the confidence interval for Benton County's low birth weight infant rate for 1985?

In 1985, Benton County had 27 out of 892 babies that were born weighing less than 2,500 grams.

$$\text{Benton Confidence Interval} = \frac{1{,}000}{892}\left(27 \pm 1.96\sqrt{27}\right)$$

$$= 1.121\left(27 \pm 10.18\right)$$

$$= 30.27 \pm 11.41$$

We are 95 percent sure that the low-birth weight rate for Benton County is between 18.86 and 41.68.

DETERMINING STATISTICAL SIGNIFICANCE FOR RATES

To determine if the difference between two rates is significant use the confidence intervals for the rates in this formula:

$$\text{Difference between the two rates} \pm \sqrt{\text{1st Confidence Interval}^2 + \text{2nd Confidence Interval}^2}$$

If the interval obtained from this calculation does <u>not</u> include 0 then the difference is statistically significant at the 95 percent level.

Example: Is the difference between Benton County's low birth weight rate and the State rate statistically significant?

Based on the formula for confidence intervals:

Oregon low-birth weight rate is 50.50 ± 2.20
Benton low-birth weight rate is 30.27 ± 11.41

Using the formula for determining statistical significance:

$$(50.50 - 30.27) \pm \sqrt{2.202 + 11.412}$$

$$20.23 \pm \sqrt{4.84 + 130.19}$$

$$20.23 \pm \sqrt{135.03}$$

$$20.23 \pm 11.62$$

The interval is between 8.61 and 31.85. Since zero does not fall between these two numbers, the difference between the low-birth weight rates for Benton County and Oregon is statistically significant.

CALCULATING RATES ADJUSTED FOR SEX/AGE/RACE

When comparing rates and ratios, the influences of sex, age, and race differences in the populations must be taken into account. Comparing many different age-sex-race specific rates can be cumbersome. The following techniques are used by vital statisticians to summarize these rates into one number.

The direct adjusted rate applies each of the specific rates for a particular population (such as a county or an HSA) to a standard population distribution (such as the state).

The standard mortality ratio compares the number of deaths for a particular population (such as a county or an HSA) to the number of deaths which would be expected if some standard set of rates (such as the state or the U.S rates) had occurred.

Life expectancy assumes that a theoretical group of babies would experience each of the current specific death rates. The average life expectancy is the mean number of years lived by these babies.

Each of these techniques has its advantages and disadvantages. The easiest to calculate is the direct adjusted rate. The following example shows how to adjust a county's death rate for sex so that it may be compared to the state rate.

$$\frac{\left(\frac{\text{county male deaths}}{\text{county male population}} \times \text{state male population}\right) + \left(\frac{\text{county female deaths}}{\text{county female population}} \times \text{state female population}\right)}{\text{Total State Population}} \times 1{,}000$$

The same logic can be used to adjust for age and/or race.

REFERENCES

For further information about calculating confidence intervals and adjusting rates see:

National Center for Health Statistics: Infant Mortality, by J. C. Kleinman, Statistical Notes for Health Planners, No. 2. Health Resources Administration, Washington, D.C., July 1976.

National Center for Health Statistics: Mortality, by J. C. Kleinman, Statistical Notes for Health Planners, No. 3. Health Resources Administration, Washington, D.C., July 1977.

SYMBOLS USED IN THIS REPORT

QUANTITY IS ZERO IN FREQUENCY TABLES	-
RATE OR PERCENT IS LESS THAN OR EQUAL TO 0.05	0.0
DATA NOT AVAILABLE OR NOT APPLICABLE	---
INSUFFICIENT DATA FOR COMPUTATION	*

Other Recent Publications

Reducing Risk Behaviors That Affect Health:
The 1988 Oregon Survey from Behavioral Risk Factor Surveillance

Deaths Due To Alcohol And Drugs, 1988

Oregon Health Trends, Quarterly Newsletter
Featuring:

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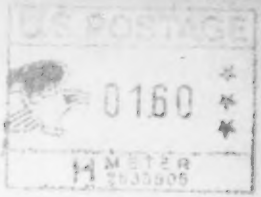

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